

Data Path : W:\HPCHEM1\MSVOA F\DATA\VF052218\
 Data File : VF057969.D
 Acq On : 23 May 2018 4:54
 Operator : JC/SY
 Sample : VF0522SBSD02
 Misc : 5.01g/5mL/MSVOA-F/SOIL
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 23 08:35:39 2018
 Quant Method : W:\HPCHEM1\MSVOA_F\METHODS\82F050918S.M
 Quant Title : SW846 8260
 QLast Update : Thu May 10 02:30:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	329732	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.75	114	558342	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.90	117	561164	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	321394	50.00	ug/l	0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.00	65	272383	69.52	ug/l	0.02
Spiked Amount	50.000		Recovery	=	139.04%	
35) Dibromofluoromethane	4.28	113	250962	62.86	ug/l	0.03
Spiked Amount	50.000		Recovery	=	125.72%	
50) Toluene-d8	7.69	98	727416	59.42	ug/l	0.02
Spiked Amount	50.000		Recovery	=	118.84%	
62) 4-Bromofluorobenzene	11.50	95	372960	60.88	ug/l	0.02
Spiked Amount	50.000		Recovery	=	121.76%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.99	85	75238	22.06	ug/l	92
3) Chloromethane	1.09	50	66798	24.33	ug/l	96
4) Vinyl Chloride	1.15	62	51573	23.83	ug/l	96
5) Bromomethane	1.33	94	29988	24.32	ug/l	100
6) Chloroethane	1.42	64	22348	26.95	ug/l	91
7) Trichlorofluoromethane	1.48	101	21344	6.66	ug/l	98
8) Diethyl Ether	1.70	74	21844	25.98	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	1.89	101	53467	27.73	ug/l #	88
10) Methyl Iodide	1.95	142	88338	25.48	ug/l #	87
11) Tert butyl alcohol	2.68	59	26536	122.15	ug/l #	73
12) 1,1-Dichloroethene	1.85	96	48109	27.27	ug/l	97
13) Acrolein	2.08	56	10045	83.64	ug/l #	75
14) Allyl chloride	2.18	41	82233	25.24	ug/l	96
15) Acrylonitrile	3.06	53	54408	129.08	ug/l	99
16) Acetone	2.33	43	91745	98.12	ug/l	96
17) Carbon Disulfide	1.87	76	103277	22.90	ug/l	96
18) Methyl Acetate	2.53	43	55795	36.20	ug/l	99
19) Methyl tert-butyl Ether	2.53	73	157103	28.51	ug/l	94
20) Methylene Chloride	2.27	84	23982	13.18	ug/l	94
21) trans-1,2-Dichloroethene	2.40	96	47454	25.97	ug/l	99
22) Diisopropyl ether	2.92	45	182770	25.74	ug/l	95
23) Vinyl Acetate	3.32	43	689725	134.89	ug/l	98
24) 1,1-Dichloroethane	2.99	63	112720	27.50	ug/l	99
25) 2-Butanone	4.50	43	170955	110.22	ug/l	99
26) 2,2-Dichloropropane	3.75	77	67298	21.59	ug/l	97
27) cis-1,2-Dichloroethene	3.62	96	94052	27.94	ug/l	93
28) Bromochloromethane	3.87	49	54146	22.93	ug/l #	99
29) Tetrahydrofuran	4.24	42	91697	144.63	ug/l	94
30) Chloroform	4.01	83	181722	27.60	ug/l	97
31) Cyclohexane	3.84	56	101217	24.28	ug/l #	92
32) 1,1,1-Trichloroethane	4.26	97	120307	26.76	ug/l	96
36) 1,1-Dichloropropene	4.44	75	113841	22.87	ug/l	97
37) Ethyl Acetate	4.27	43	84287	23.83	ug/l	99
38) Carbon Tetrachloride	4.15	117	135398	25.60	ug/l	90

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 Misc : 5.01g/5mL/MSVOA-F/SOIL
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 23 08:35:39 2018
 Quant Method : W:\HPCHEM1\MSVOA_F\METHODS\82F050918S.M
 Quant Title : SW846 8260
 QLast Update : Thu May 10 02:30:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.61	83	117885	22.48	ug/l	98
40) Benzene	4.79	78	294780	24.31	ug/l	98
41) Methacrylonitrile	4.90	41	38528	21.11	ug/l #	89
42) 1,2-Dichloroethane	5.10	62	131945	25.80	ug/l	96
43) Isopropyl Acetate	7.10	43	115037	24.53	ug/l #	100
44) Trichloroethene	5.66	130	90275	23.72	ug/l	95
45) 1,2-Dichloropropane	6.38	63	91455	26.30	ug/l	96
46) Dibromomethane	6.24	93	69528	26.01	ug/l	96
47) Bromodichloromethane	6.54	83	146281	24.51	ug/l	96
48) Methyl methacrylate	6.85	41	72144	23.23	ug/l	95
49) 1,4-Dioxane	6.86	88	8280	386.48	ug/l #	70
51) 4-Methyl-2-Pentanone	8.39	43	408344	128.52	ug/l	96
52) Toluene	7.76	92	208632	23.92	ug/l	96
53) t-1,3-Dichloropropene	8.41	75	135912	22.68	ug/l	97
54) cis-1,3-Dichloropropene	7.44	75	157917	23.96	ug/l	94
55) 1,1,2-Trichloroethane	8.63	97	82797	25.10	ug/l	96
56) Ethyl methacrylate	8.75	69	102783	22.54	ug/l	93
57) 1,3-Dichloropropane	8.98	76	151753	26.61	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.76	63	32877	51.70	ug/l	100
59) 2-Hexanone	9.61	43	319607	116.81	ug/l	99
60) Dibromochloromethane	8.84	129	114079	23.04	ug/l	96
61) 1,2-Dibromoethane	9.12	107	94985	24.51	ug/l	100
64) Tetrachloroethene	8.29	164	107388	28.85	ug/l	98
65) Chlorobenzene	9.93	112	260994	24.55	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.06	131	100937	23.67	ug/l	95
67) Ethyl Benzene	10.03	91	446631	24.11	ug/l	99
68) m/p-Xylenes	10.25	106	326633	48.99	ug/l	95
69) o-Xylene	10.82	106	192974	26.04	ug/l	98
70) Styrene	10.89	104	285720	24.56	ug/l	98
71) Bromoform	10.87	173	70905	21.43	ug/l	97
73) Isopropylbenzene	11.22	105	508443	25.18	ug/l	98
74) N-amyl acetate	11.46	43	212001	25.37	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.78	83	127675	24.63	ug/l	95
76) 1,2,3-Trichloropropane	11.88	75	94988	25.14	ug/l	94
77) Bromobenzene	11.58	156	128030	23.73	ug/l	93
78) n-propylbenzene	11.67	91	621436	25.06	ug/l	98
79) 2-Chlorotoluene	11.80	91	359206	24.40	ug/l	97
80) 1,3,5-Trimethylbenzene	11.90	105	431626	24.65	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.95	75	58495	23.14	ug/l	95
82) 4-Chlorotoluene	11.98	91	404450	25.16	ug/l	97
83) tert-Butylbenzene	12.21	119	418652	24.03	ug/l	96
84) 1,2,4-Trimethylbenzene	12.27	105	439508	24.49	ug/l	95
85) sec-Butylbenzene	12.38	105	571791	24.98	ug/l	100
86) p-Isopropyltoluene	12.53	119	460047	23.23	ug/l	97
87) 1,3-Dichlorobenzene	12.55	146	242117	23.78	ug/l	98
88) 1,4-Dichlorobenzene	12.64	146	233919	23.79	ug/l	98
89) n-Butylbenzene	12.91	91	480968	24.33	ug/l	98
90) Hexachloroethane	12.98	117	107900	22.64	ug/l	79
91) 1,2-Dichlorobenzene	13.01	146	232154	24.83	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.70	75	23530	22.55	ug/l	68

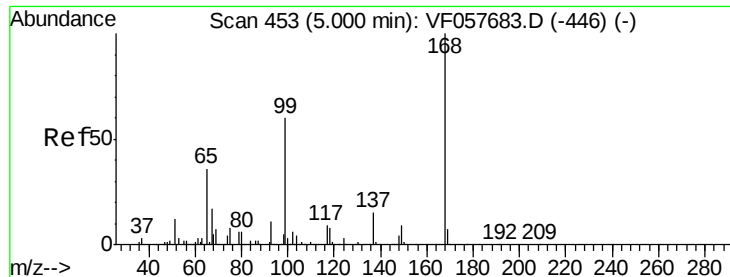
Data Path : W:\HPCHEM1\MSVOA F\DATA\VF052218\
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ClientSampleId :

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Quant Method : W:\HPCHEM1\MSVOA_F\METHODS\82F050918S.M
Quant Title : SW846 8260
QLast Update : Thu May 10 02:30:18 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.26	180	149988	22.20	ug/l	94
94) Hexachlorobutadiene	14.25	225	80308	21.59	ug/l	95
95) Naphthalene	14.51	128	330761	21.60	ug/l	99
96) 1,2,3-Trichlorobenzene	14.66	180	140815	22.65	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.03 min Scan# 456

Delta R.T. 0.03 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

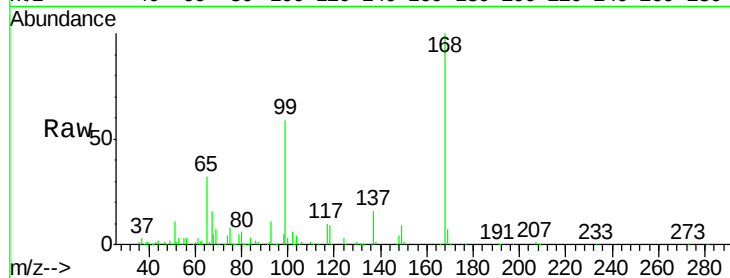
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 329732

Ion Ratio Lower Upper

168 100

99 59.5 48.5 72.7



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

120000

100000

80000

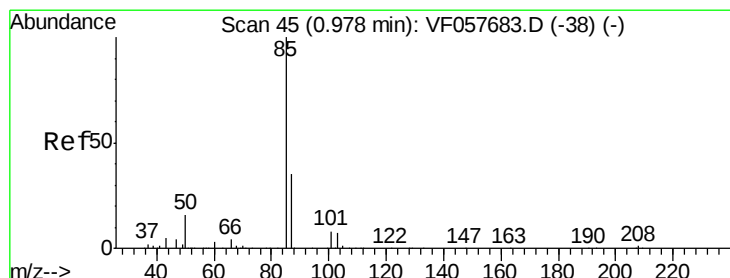
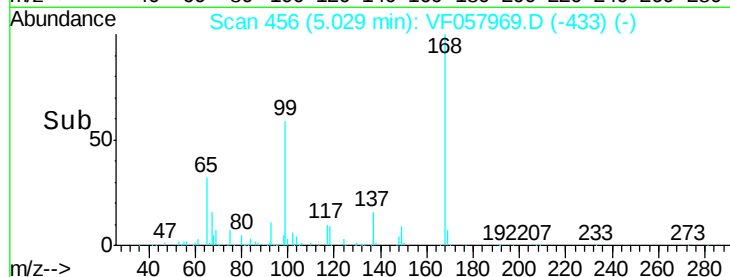
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 22.06 ug/l

RT: 0.99 min Scan# 46

Delta R.T. 0.01 min

Lab File: VF057969.D

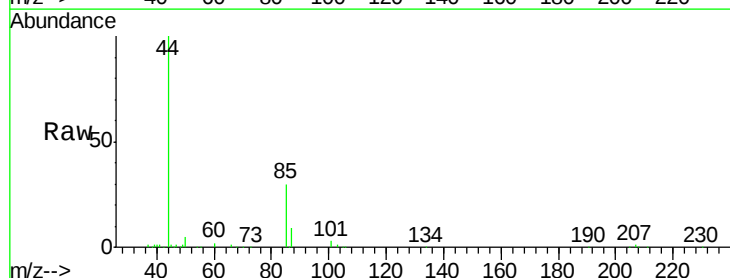
Acq: 23 May 2018 4:54

Tgt Ion: 85 Resp: 75238

Ion Ratio Lower Upper

85 100

87 30.6 17.6 52.8



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.99

25000

20000

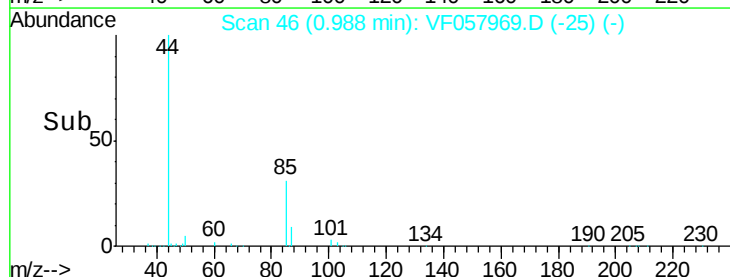
15000

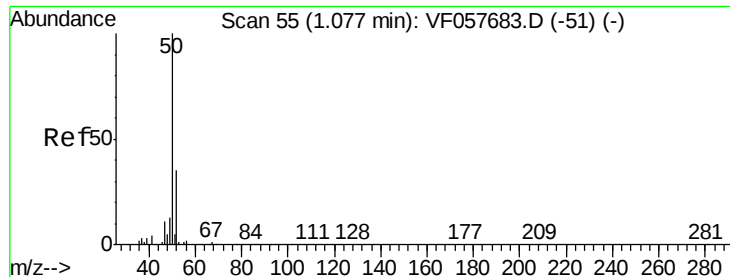
10000

5000

0

Time-->





#3

Chloromethane

Concen: 24.33 ug/l

RT: 1.09 min Scan# 56

Delta R.T. 0.01 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

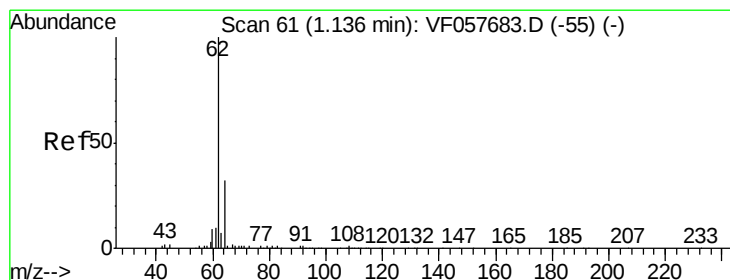
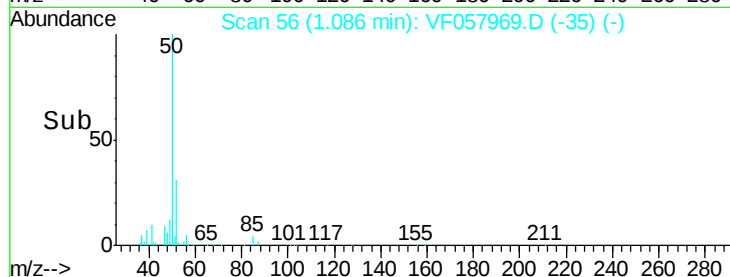
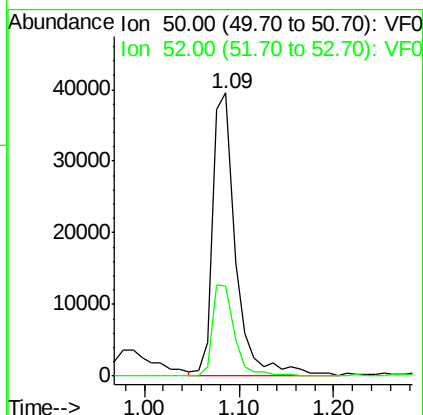
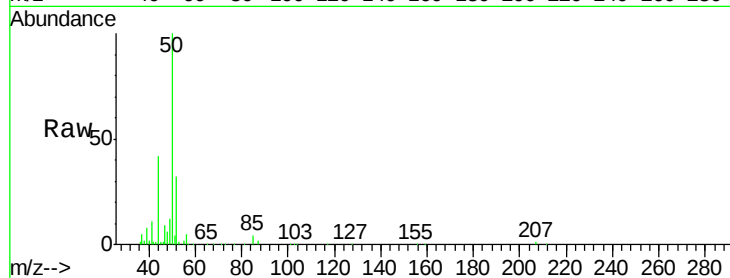
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 50 Resp: 66798

Ion Ratio Lower Upper

50 100

52 31.6 27.3 40.9



#4

Vinyl Chloride

Concen: 23.83 ug/l

RT: 1.15 min Scan# 62

Delta R.T. 0.01 min

Lab File: VF057969.D

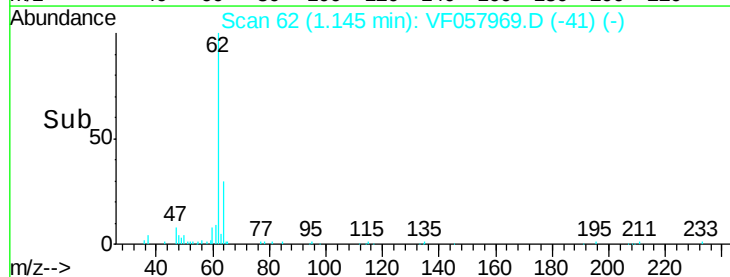
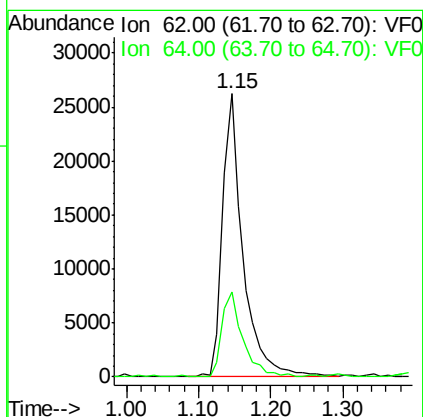
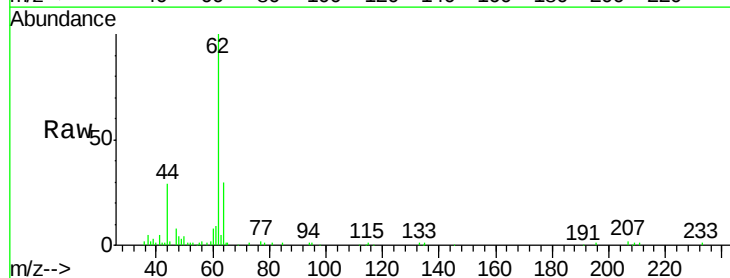
Acq: 23 May 2018 4:54

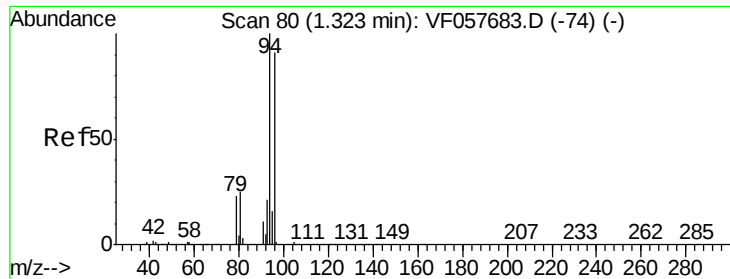
Tgt Ion: 62 Resp: 51573

Ion Ratio Lower Upper

62 100

64 30.0 25.8 38.8





#5

Bromomethane

Concen: 24.32 ug/l

RT: 1.33 min Scan# 81

Delta R.T. 0.01 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

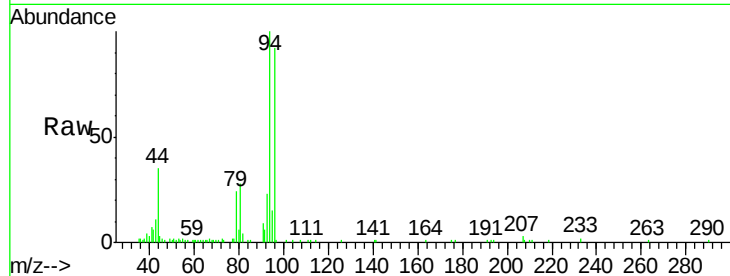
ClientSampleId :

Tot Ion: 94 Resp: 29988

Ion Ratio Lower Upper

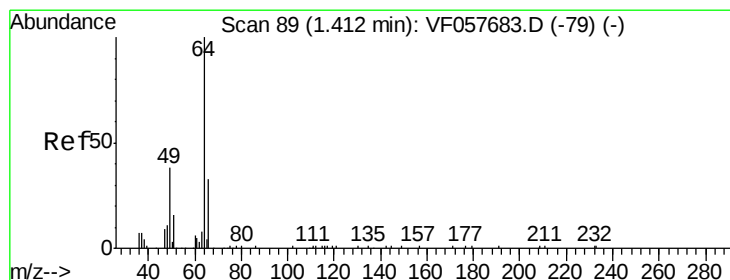
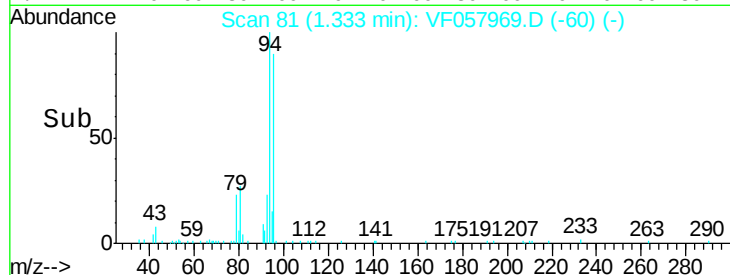
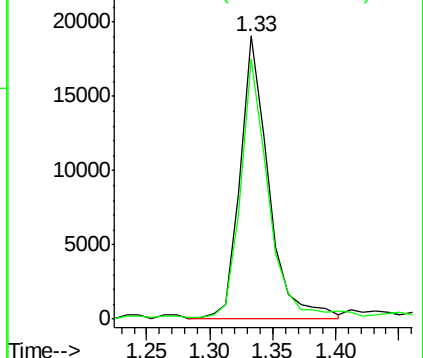
94 100

96 92.0 73.7 110.5



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 26.95 ug/l

RT: 1.42 min Scan# 90

Delta R.T. 0.01 min

Lab File: VF057969.D

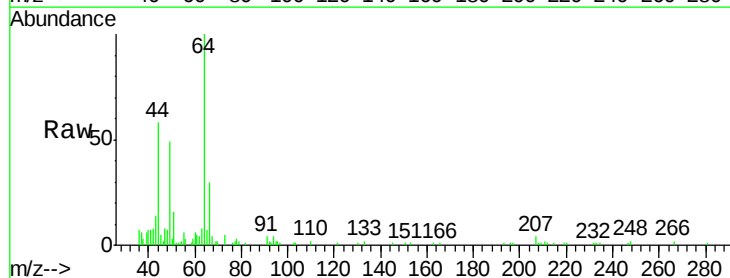
Acq: 23 May 2018 4:54

Tgt Ion: 64 Resp: 22348

Ion Ratio Lower Upper

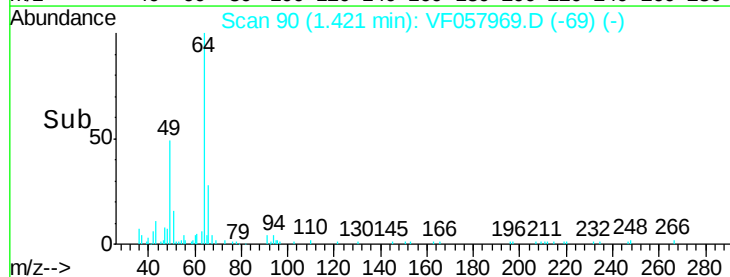
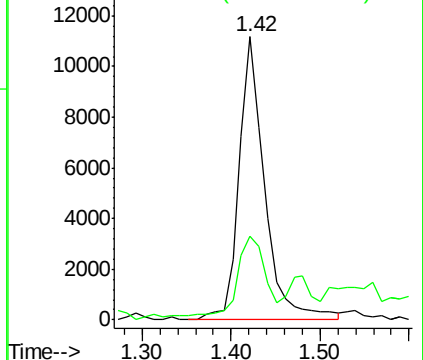
64 100

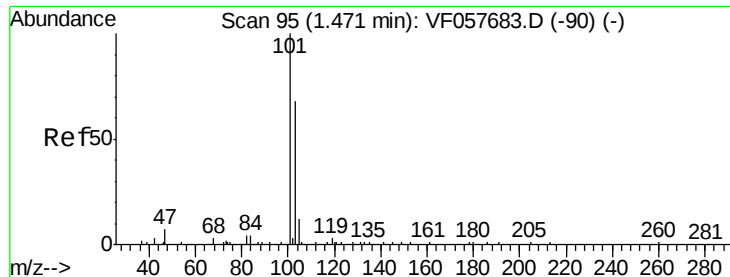
66 29.6 27.9 41.9



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 6.66 ug/l

RT: 1.48 min Scan# 96

Delta R.T. 0.01 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

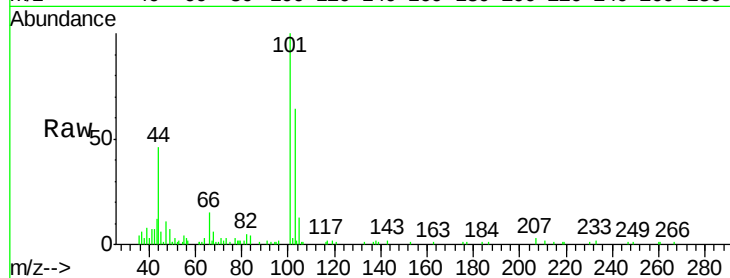
ClientSampleId :

Tot Ion:101 Resp: 21344

Ion Ratio Lower Upper

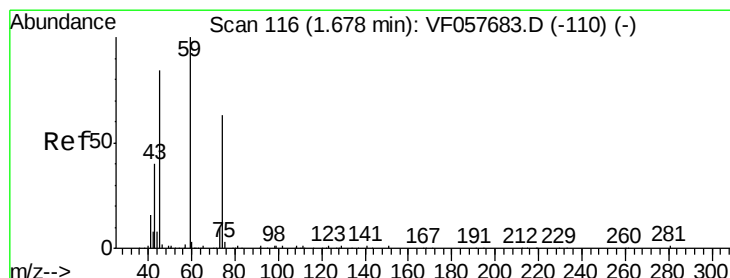
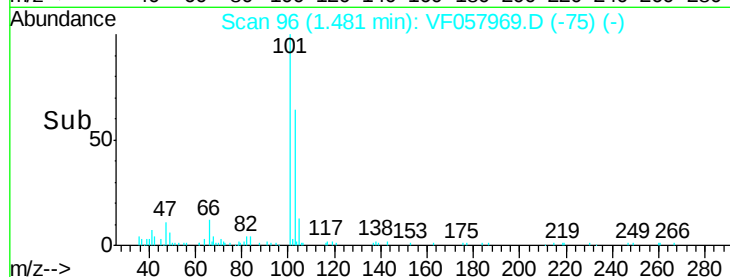
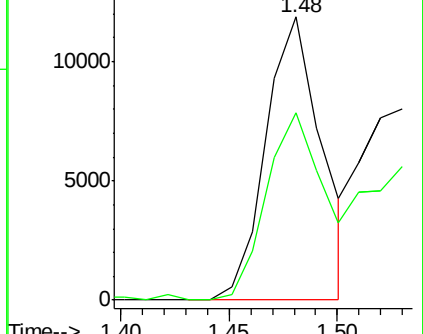
101 100

103 66.2 54.6 81.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 25.98 ug/l

RT: 1.70 min Scan# 118

Delta R.T. 0.02 min

Lab File: VF057969.D

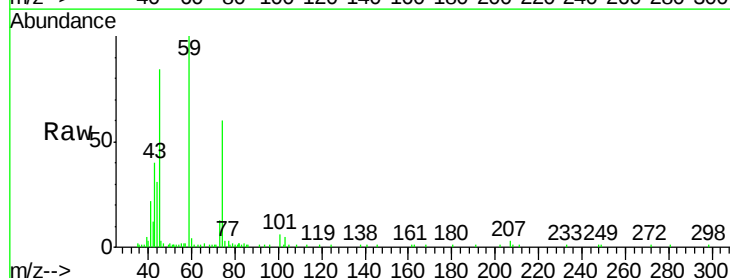
Acq: 23 May 2018 4:54

Tgt Ion: 74 Resp: 21844

Ion Ratio Lower Upper

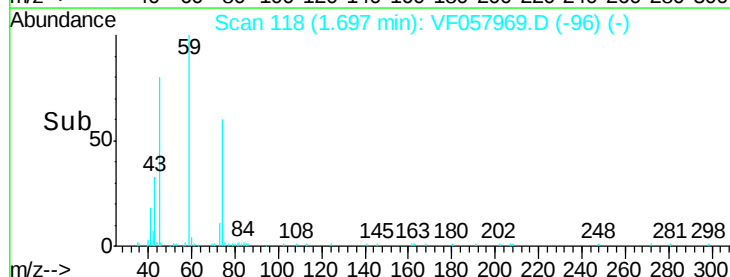
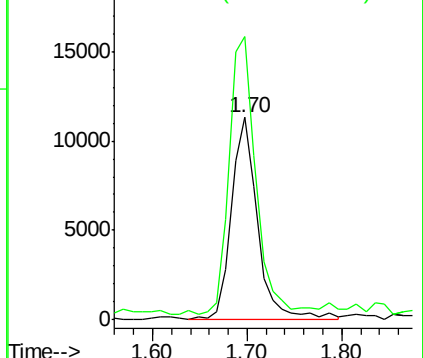
74 100

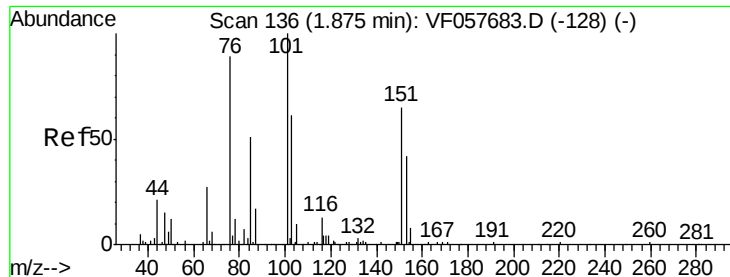
45 139.8 69.6 208.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 27.73 ug/l

RT: 1.89 min Scan# 138

Delta R.T. 0.02 min

Lab File: VF057969.D

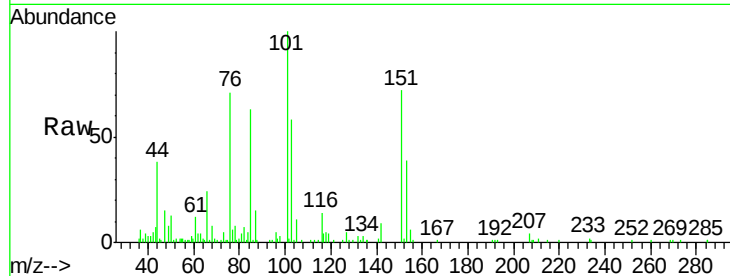
Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

ClientSampled :

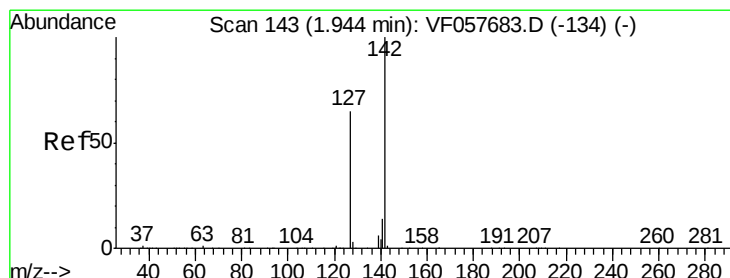
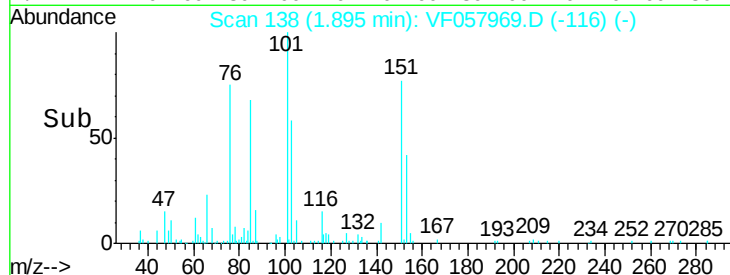
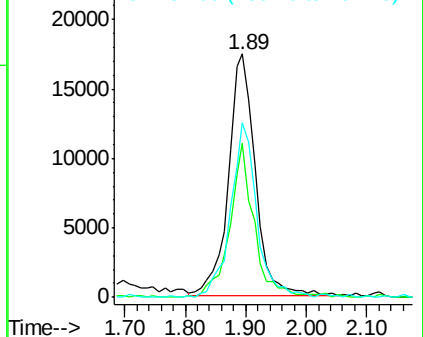
Tot Ion:101	Resp:	53467
Ion Ratio	Lower	Upper
101 100		
85 62.1	41.2	61.8#
151 70.2	50.5	75.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 25.48 ug/l

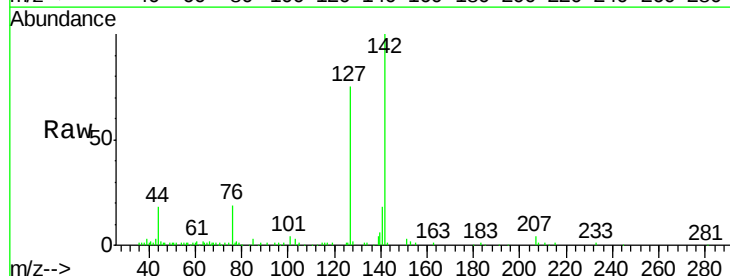
RT: 1.95 min Scan# 144

Delta R.T. 0.01 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

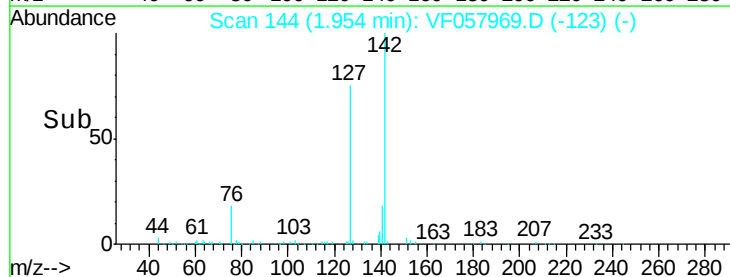
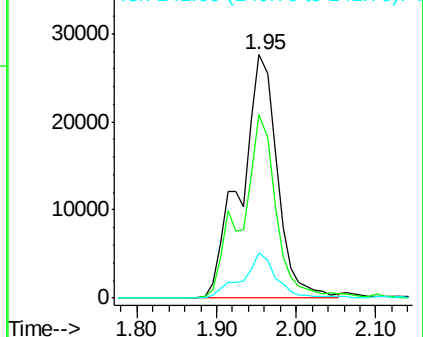
Tgt Ion:142	Resp:	88338
Ion Ratio	Lower	Upper
142 100		
127 75.4	51.9	77.9
141 18.4	11.8	17.6#

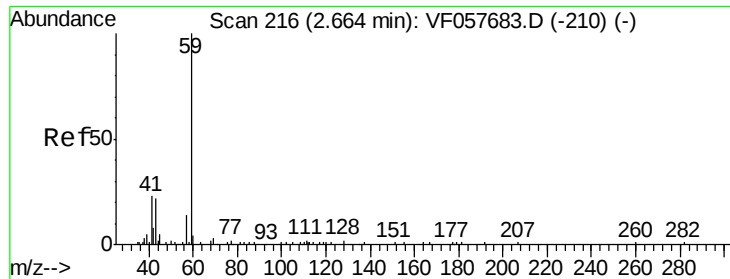


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



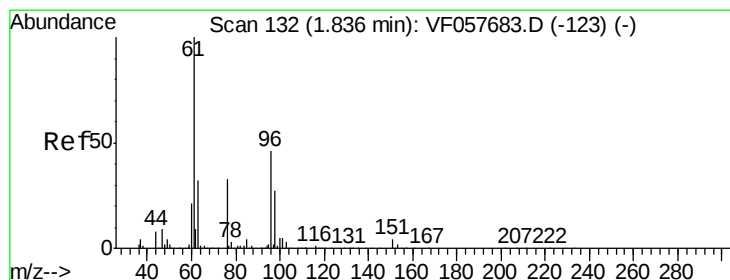
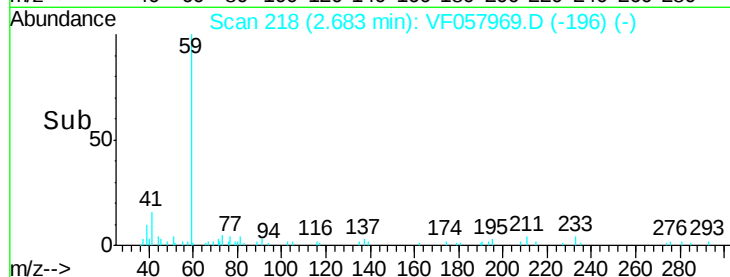
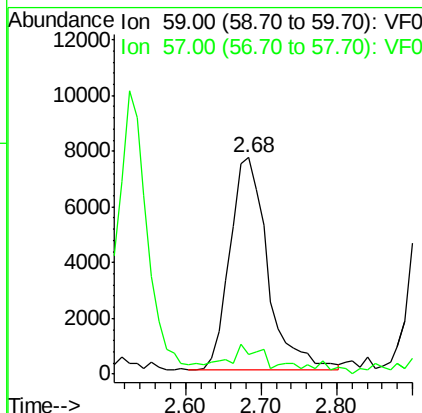
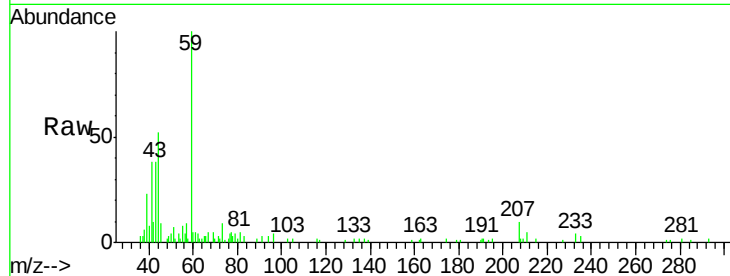


#11

Tert butyl alcohol
Concen: 122.15 ug/l
RT: 2.68 min Scan# 218
Delta R.T. 0.02 min
Lab File: VF057969.D
Acq: 23 May 2018 4:54

Instrument :
MSVOA_X
ClientSampleId :

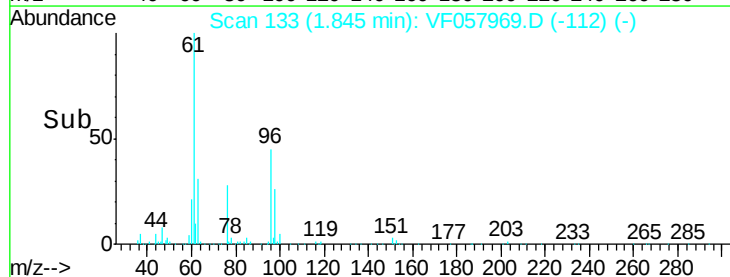
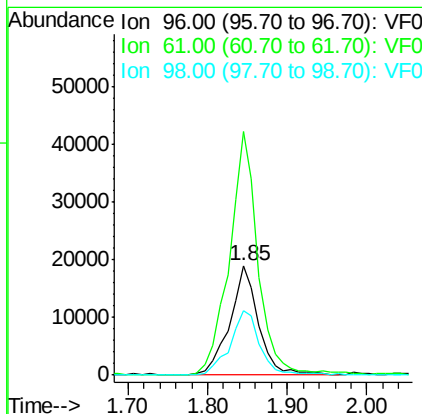
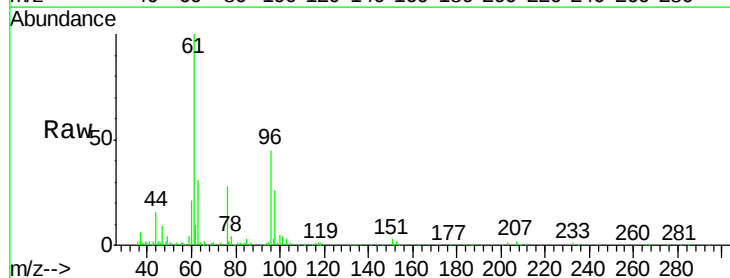
Tot Ion: 59 Resp: 26536
Ion Ratio Lower Upper
59 100
57 11.1 19.8 29.6#

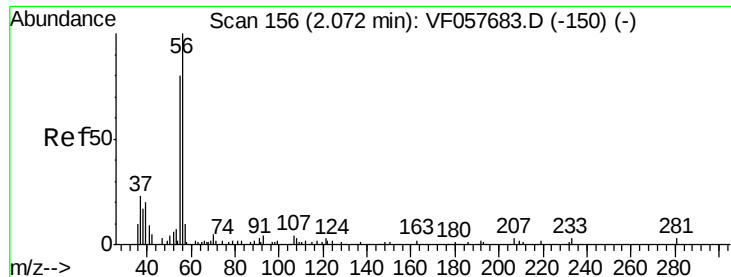


#12

1,1-Dichloroethene
Concen: 27.27 ug/l
RT: 1.85 min Scan# 133
Delta R.T. 0.01 min
Lab File: VF057969.D
Acq: 23 May 2018 4:54

Tgt Ion: 96 Resp: 48109
Ion Ratio Lower Upper
96 100
61 221.8 173.4 260.2
98 58.8 47.8 71.8





#13

Acrolein

Concen: 83.64 ug/l

RT: 2.08 min Scan# 157

Delta R.T. 0.01 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

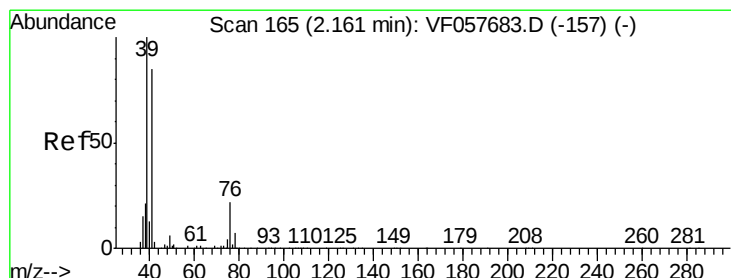
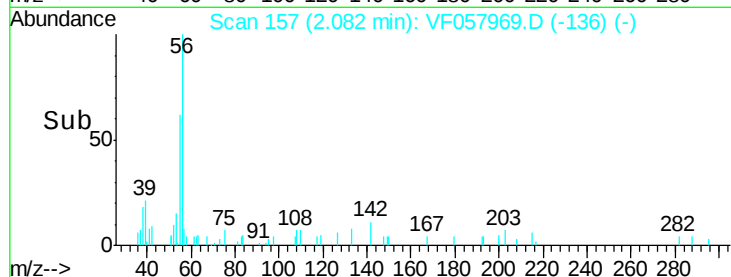
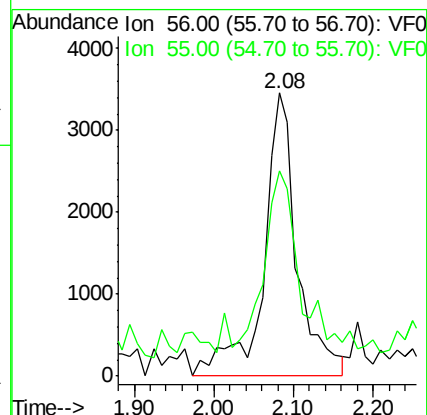
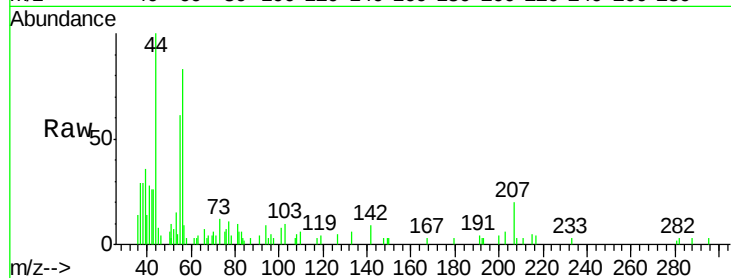
ClientSampleId :

Tot Ion: 56 Resp: 10045

Ion Ratio Lower Upper

56 100

55 72.7 78.2 117.2#



#14

Allyl chloride

Concen: 25.24 ug/l

RT: 2.18 min Scan# 167

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

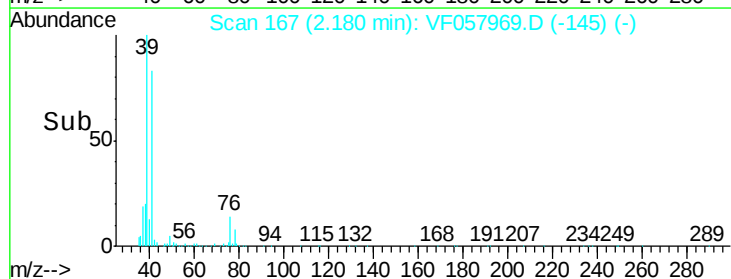
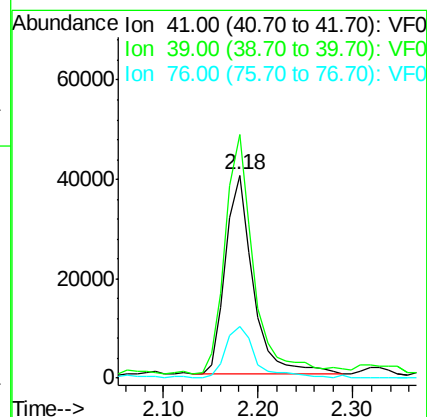
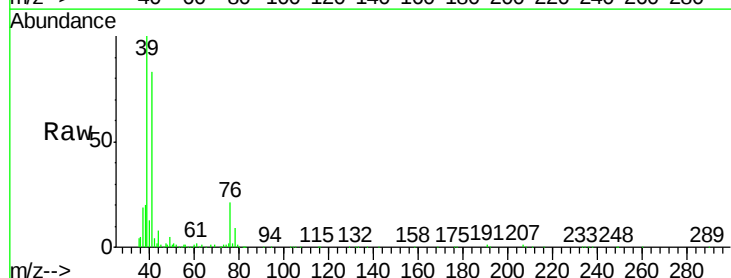
Tgt Ion: 41 Resp: 82233

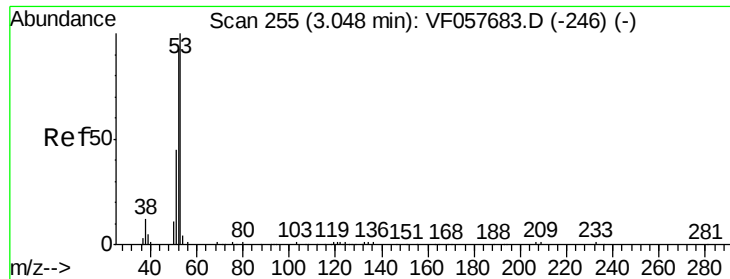
Ion Ratio Lower Upper

41 100

39 119.9 92.1 138.1

76 25.4 19.8 29.6





#15

Acrylonitrile

Concen: 129.08 ug/l

RT: 3.06 min Scan# 256

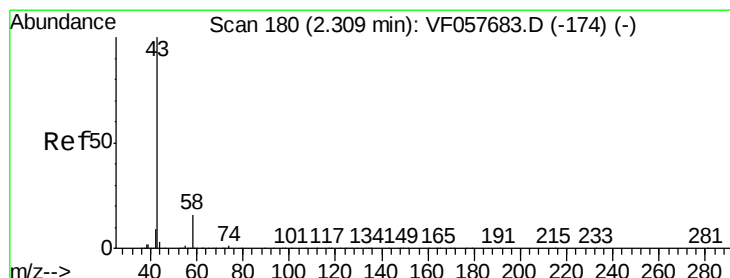
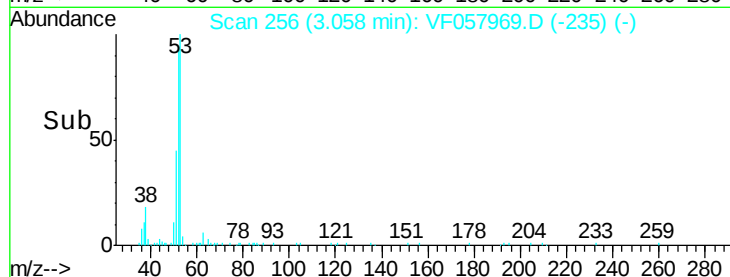
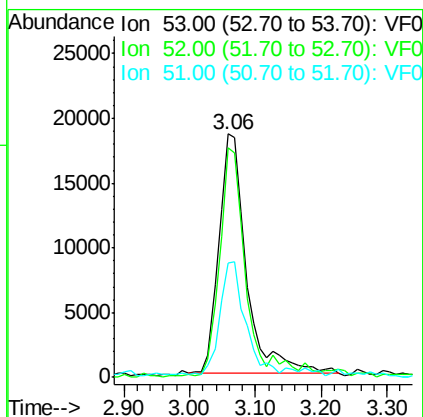
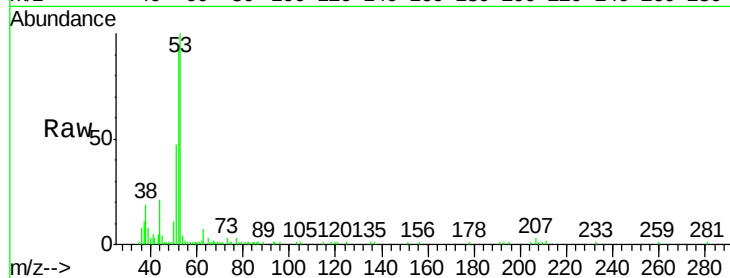
Delta R.T. 0.01 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	53	Resp:	54408
Ion	Ratio	Lower	Upper
53	100		
52	94.3	74.4	111.6
51	46.8	37.0	55.6



#16

Acetone

Concen: 98.12 ug/l

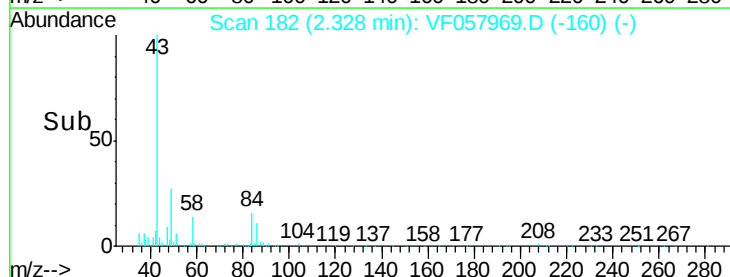
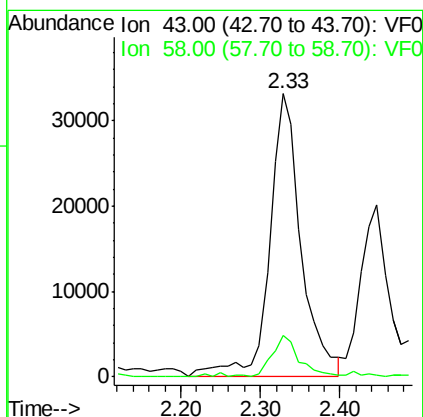
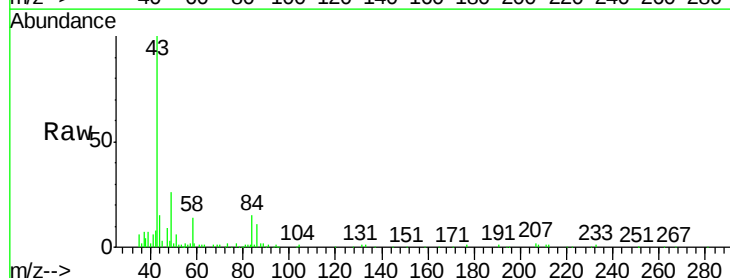
RT: 2.33 min Scan# 182

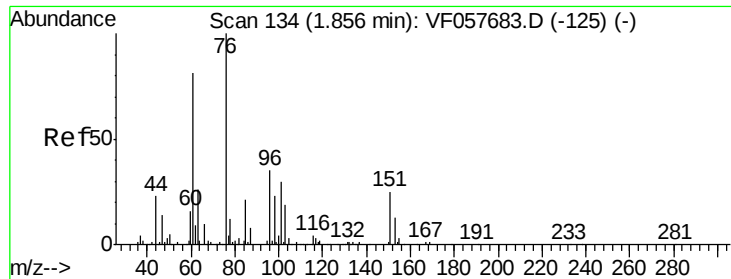
Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Tgt Ion:	43	Resp:	91745
Ion	Ratio	Lower	Upper
43	100		
58	14.5	13.0	19.6

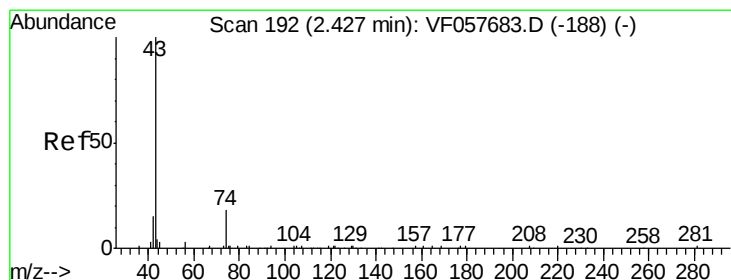
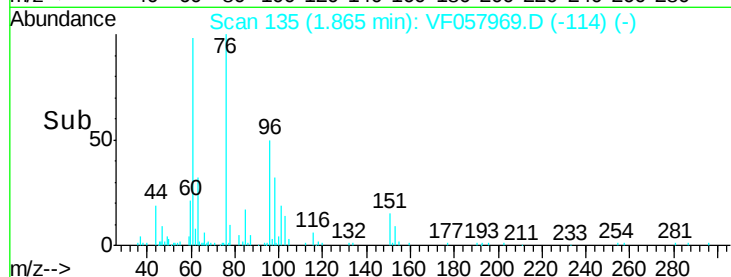
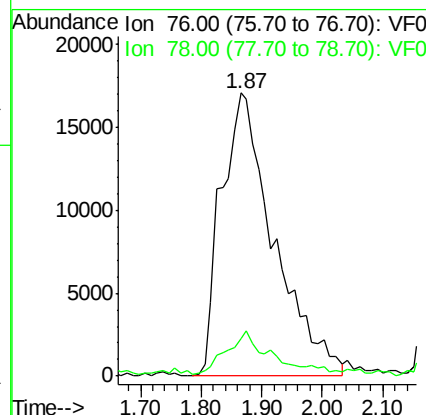
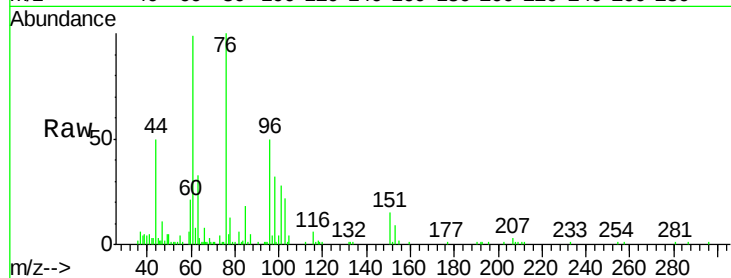




#17
Carbon Disulfide
Concen: 22.90 ug/l
RT: 1.87 min Scan# 135
Delta R.T. 0.01 min
Lab File: VF057969.D
Acq: 23 May 2018 4:54

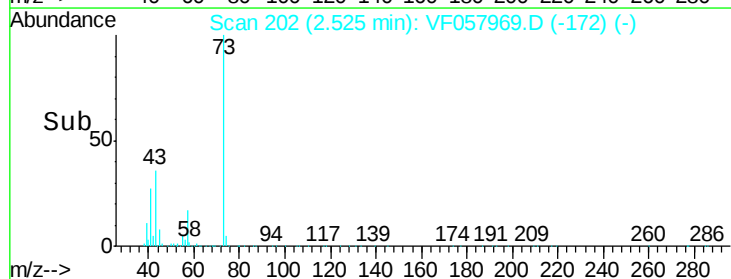
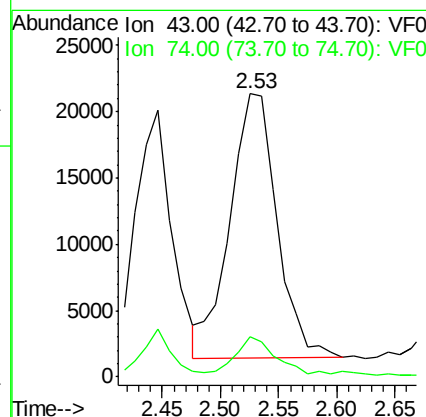
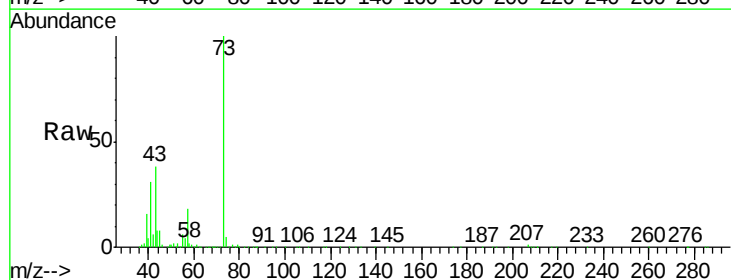
Instrument :
MSVOA_X
ClientSampleId :

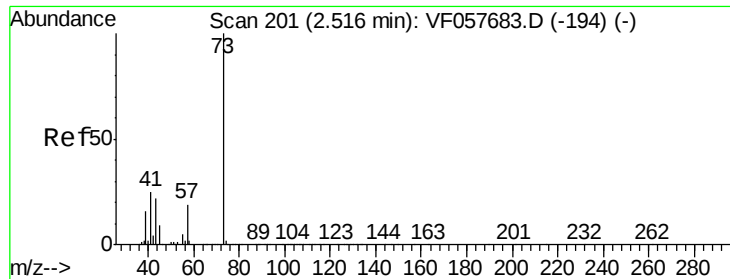
Tot Ion: 76 Resp: 103277
Ion Ratio Lower Upper
76 100
78 13.1 9.4 14.0



#18
Methyl Acetate
Concen: 36.20 ug/l
RT: 2.53 min Scan# 202
Delta R.T. 0.10 min
Lab File: VF057969.D
Acq: 23 May 2018 4:54

Tgt Ion: 43 Resp: 55795
Ion Ratio Lower Upper
43 100
74 14.3 11.9 17.9

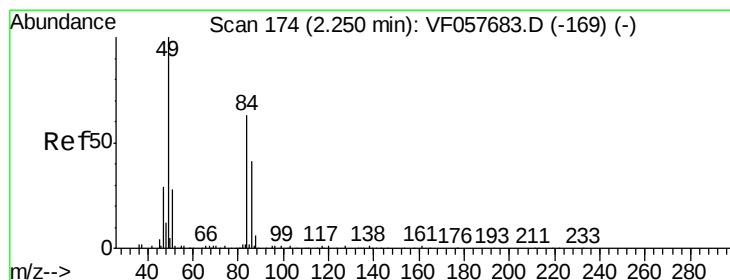
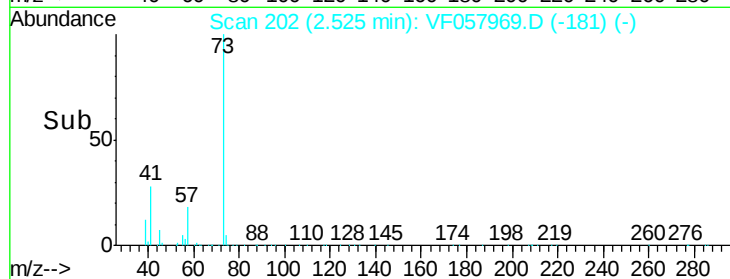
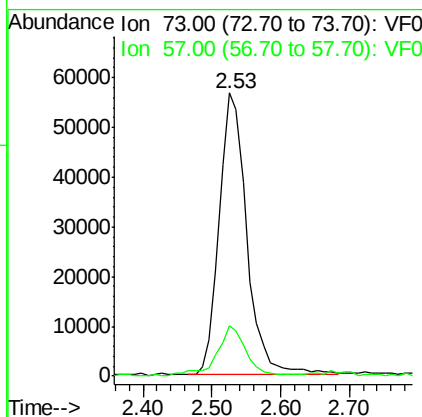
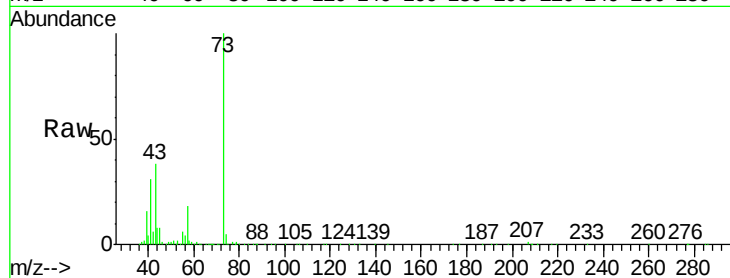




#19
Methvl tert-butvl Ether
Concen: 28.51 ug/l
RT: 2.53 min Scan# 202
Delta R.T. 0.01 min
Lab File: VF057969.D
Acq: 23 May 2018 4:54

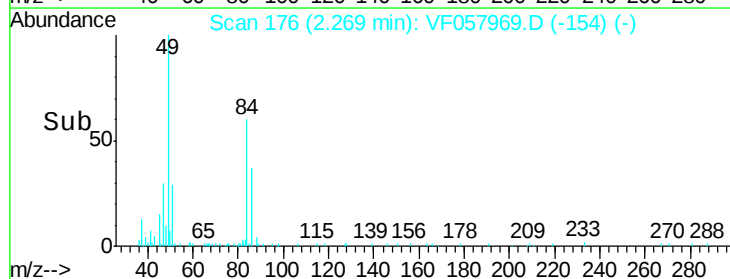
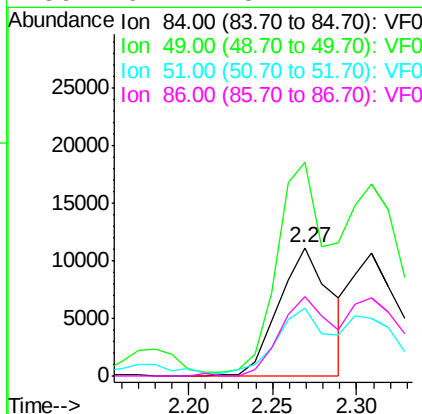
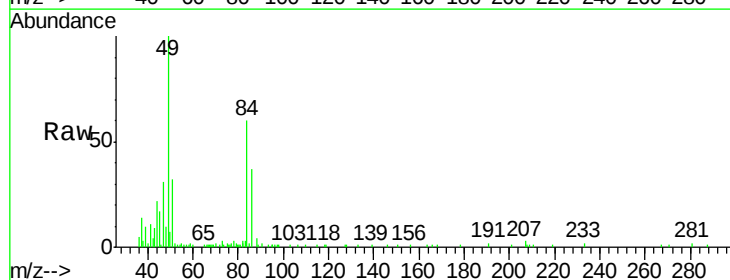
Instrument :
MSVOA_X
ClientSampleId :

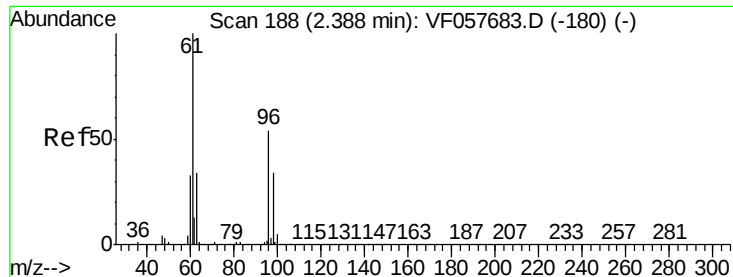
Tot Ion: 73 Resp: 157103
Ion Ratio Lower Upper
73 100
57 17.8 16.5 24.7



#20
Methylene Chloride
Concen: 13.18 ug/l
RT: 2.27 min Scan# 176
Delta R.T. 0.02 min
Lab File: VF057969.D
Acq: 23 May 2018 4:54

Tgt Ion: 84 Resp: 23982
Ion Ratio Lower Upper
84 100
49 166.8 126.4 189.6
51 52.9 36.6 55.0
86 62.2 51.4 77.2





#21

trans-1,2-Dichloroethene

Concen: 25.97 ug/l

RT: 2.40 min Scan# 189

Delta R.T. 0.01 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :
MSVOA_X
ClientSampleId :

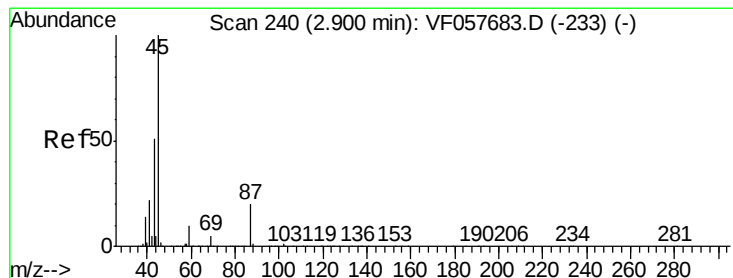
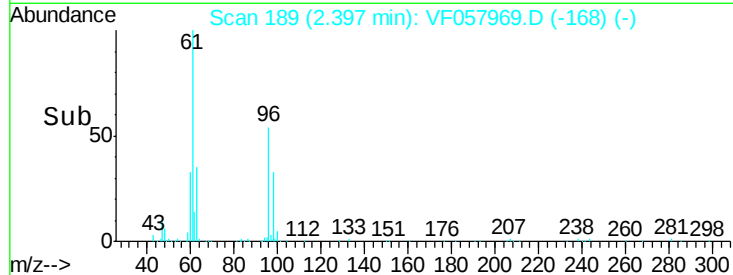
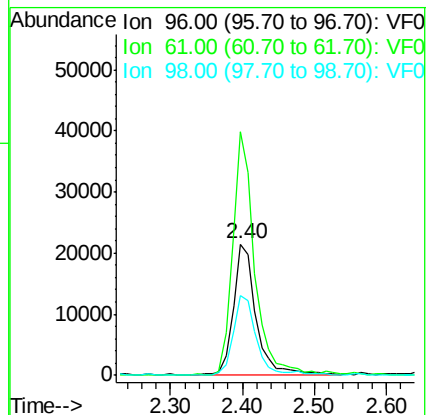
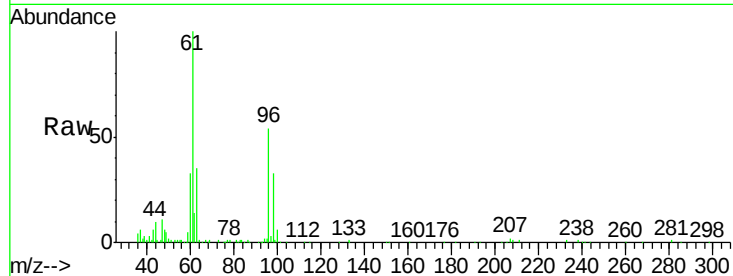
Tot Ion: 96 Resp: 47454

Ion Ratio Lower Upper

96 100

61 185.7 148.3 222.5

98 60.9 51.4 77.0



#22

Diisopropyl ether

Concen: 25.74 ug/l

RT: 2.92 min Scan# 242

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Tgt Ion: 45 Resp: 182770

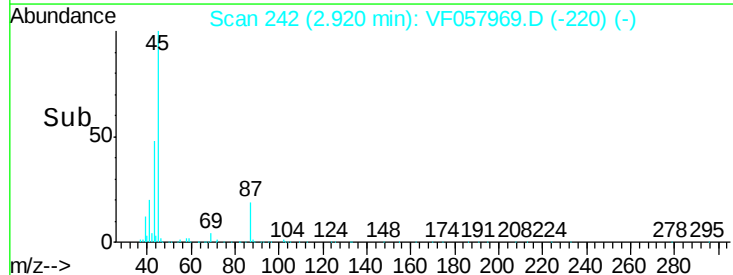
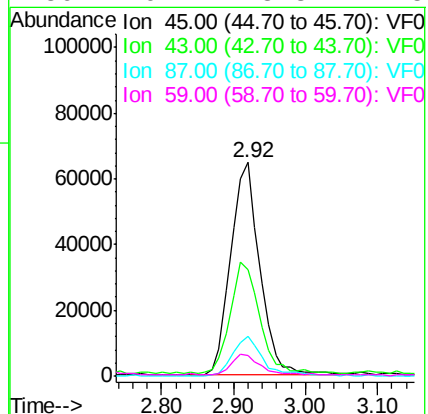
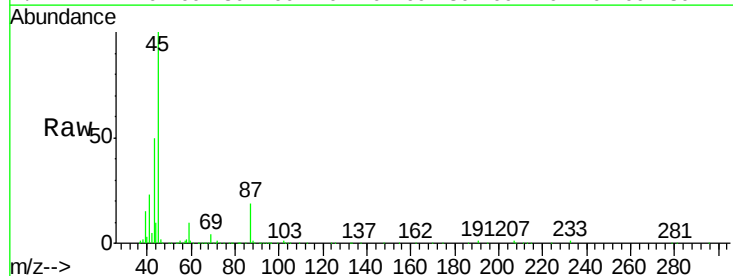
Ion Ratio Lower Upper

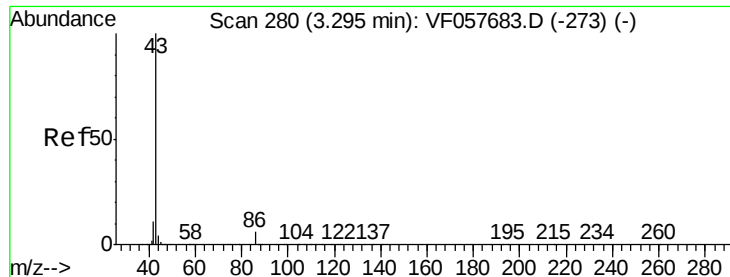
45 100

43 50.0 43.8 65.8

87 18.8 16.3 24.5

59 9.7 8.3 12.5





#23

Vinyl Acetate

Concen: 134.89 ug/l

RT: 3.32 min Scan# 283

Delta R.T. 0.03 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

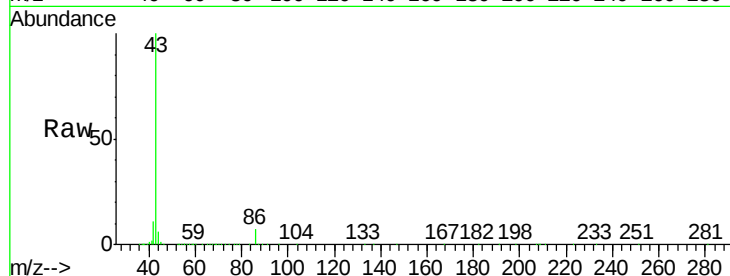
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 689725

Ion Ratio Lower Upper

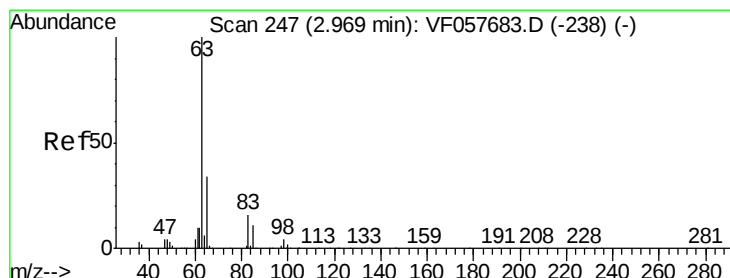
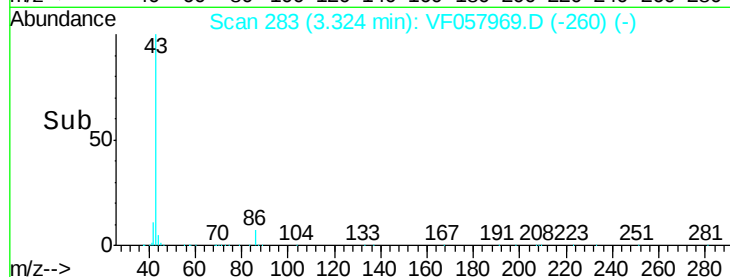
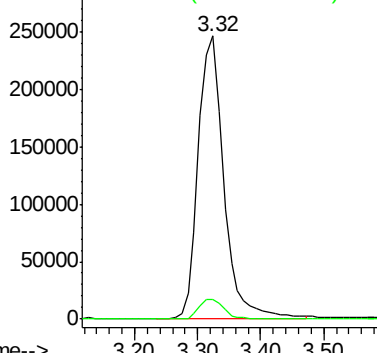
43 100

86 7.1 5.2 7.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 27.50 ug/l

RT: 2.99 min Scan# 249

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

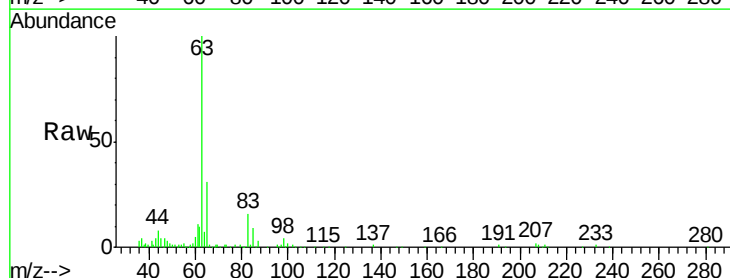
Tgt Ion: 63 Resp: 112720

Ion Ratio Lower Upper

63 100

98 4.1 2.1 6.2

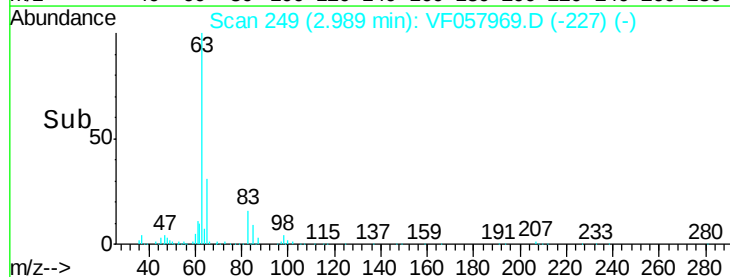
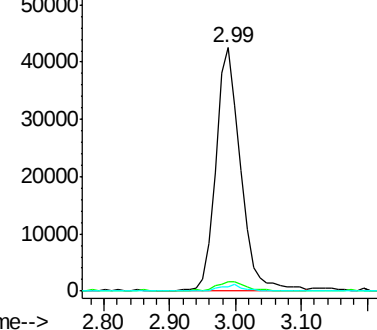
100 1.7 1.3 3.8

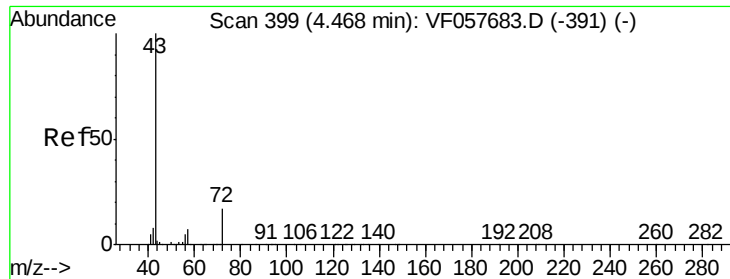


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 110.22 ug/l

RT: 4.50 min Scan# 402

Delta R.T. 0.03 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

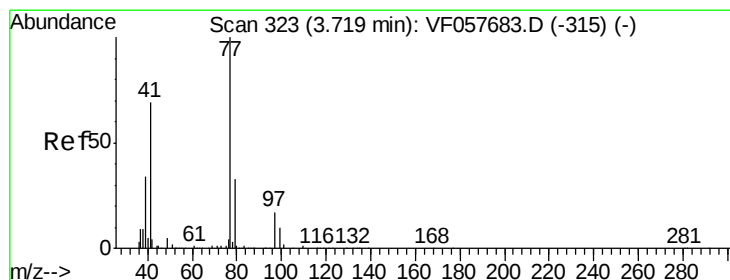
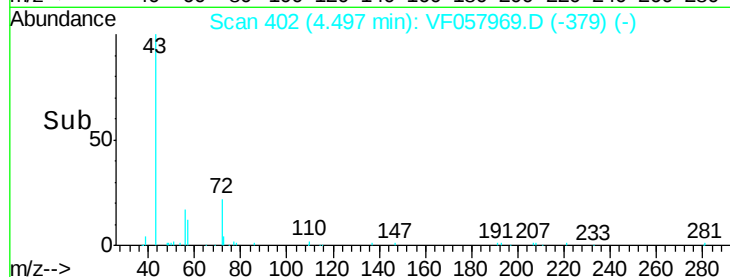
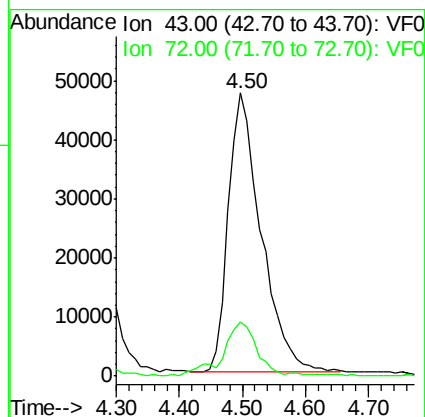
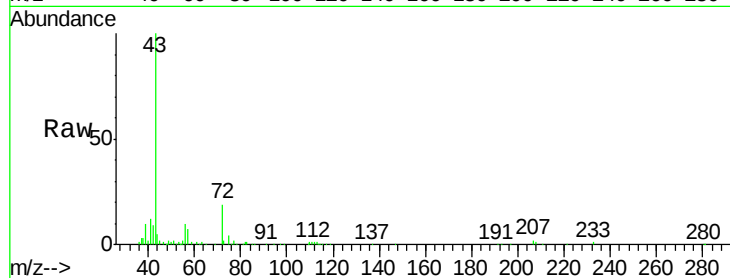
ClientSampleId :

Tot Ion: 43 Resp: 170955

Ion Ratio Lower Upper

43 100

72 19.2 15.0 22.6



#26

2,2-Dichloropropane

Concen: 21.59 ug/l

RT: 3.75 min Scan# 326

Delta R.T. 0.03 min

Lab File: VF057969.D

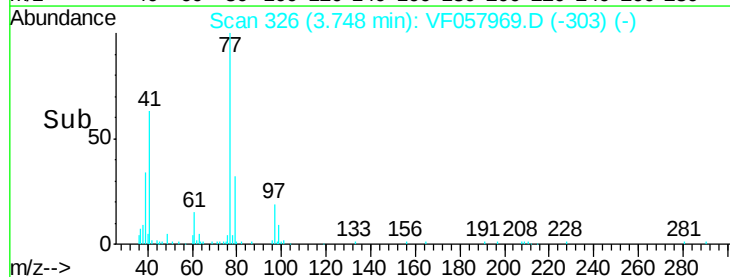
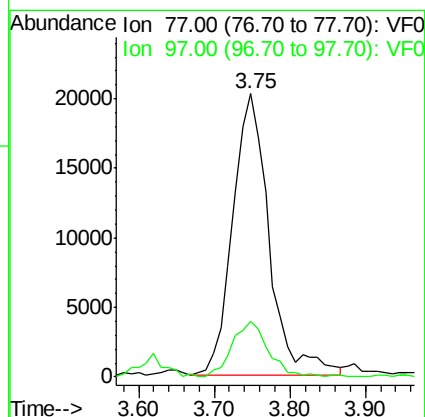
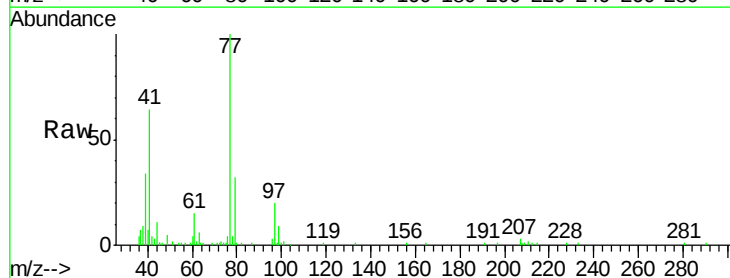
Acq: 23 May 2018 4:54

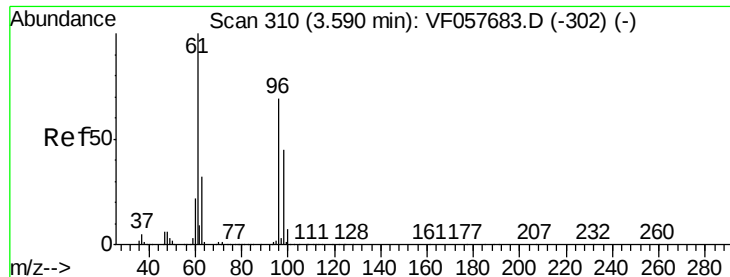
Tgt Ion: 77 Resp: 67298

Ion Ratio Lower Upper

77 100

97 19.5 9.0 27.1



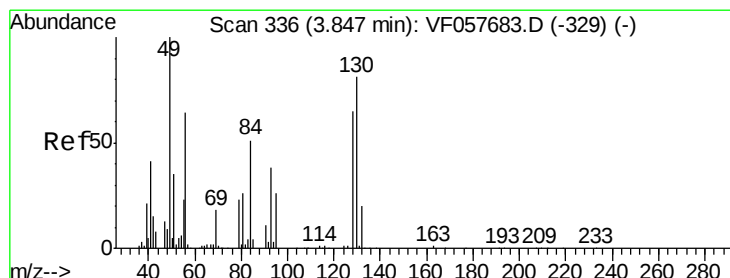
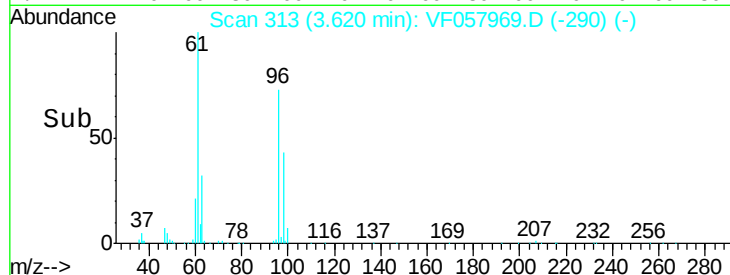
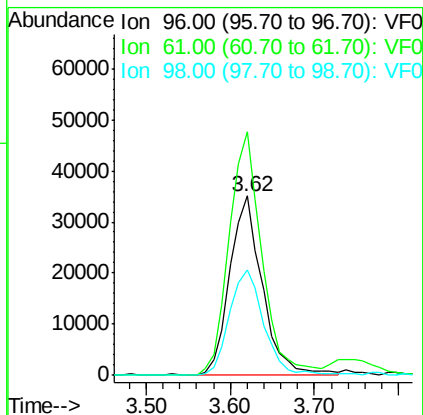
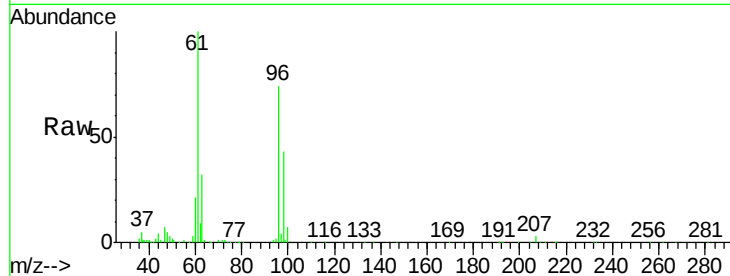


#27

cis-1,2-Dichloroethene
Concen: 27.94 ug/l
RT: 3.62 min Scan# 313
Delta R.T. 0.03 min
Lab File: VF057969.D
Acq: 23 May 2018 4:54

Instrument :
MSVOA_X
ClientSampleId :

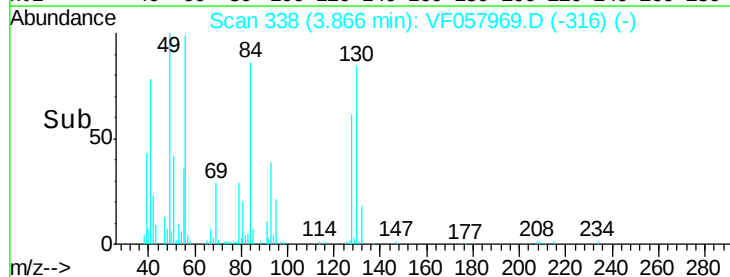
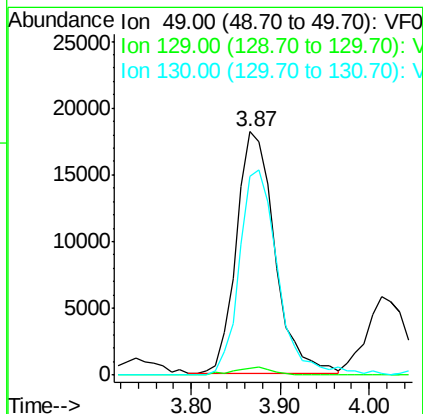
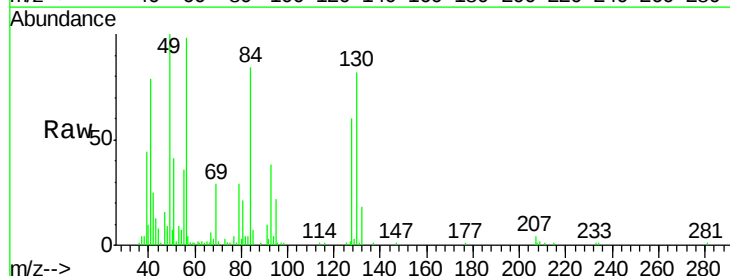
Tot Ion: 96 Resp: 94052
Ion Ratio Lower Upper
96 100
61 135.8 0.0 286.8
98 58.8 0.0 130.2

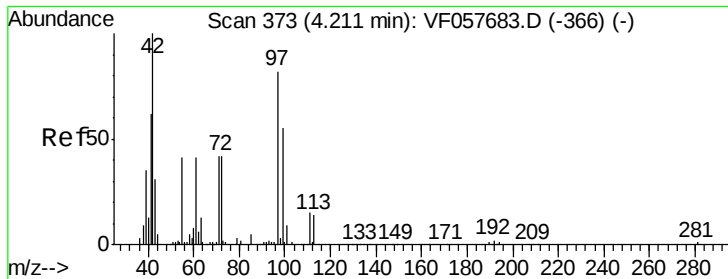


#28

Bromochloromethane
Concen: 22.93 ug/l
RT: 3.87 min Scan# 338
Delta R.T. 0.02 min
Lab File: VF057969.D
Acq: 23 May 2018 4:54

Tgt Ion: 49 Resp: 54146
Ion Ratio Lower Upper
49 100
129 2.9 0.0 0.0#
130 81.7 64.7 97.1

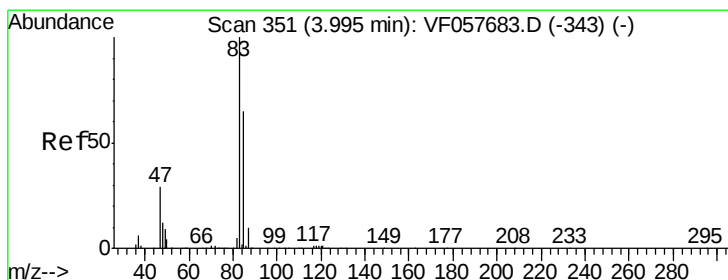
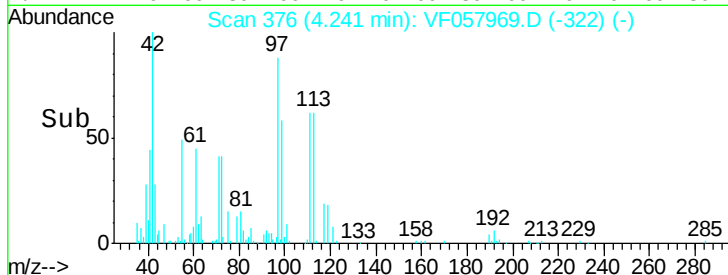
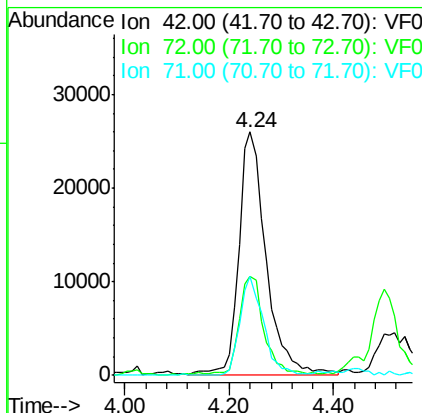
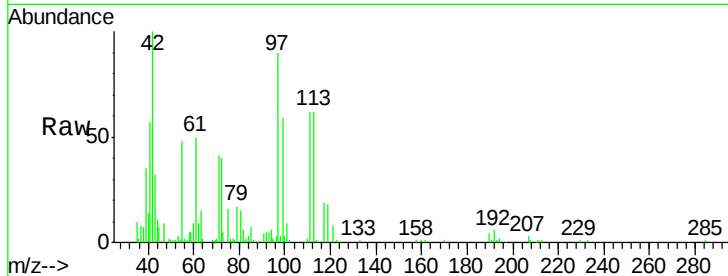




#29
Tetrahydrofuran
Concen: 144.63 ug/l
RT: 4.24 min Scan# 376
Delta R.T. 0.03 min
Lab File: VF057969.D
Acq: 23 May 2018 4:54

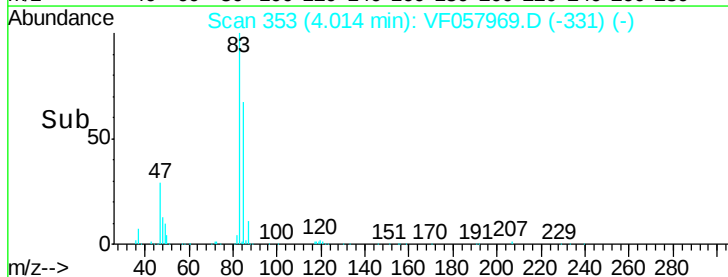
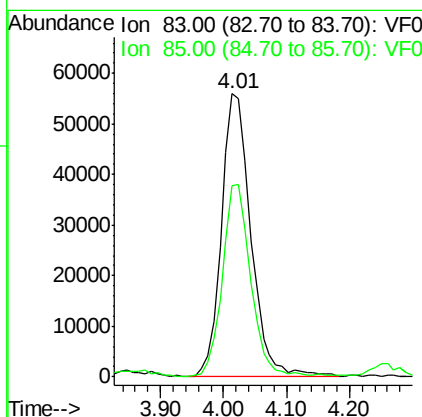
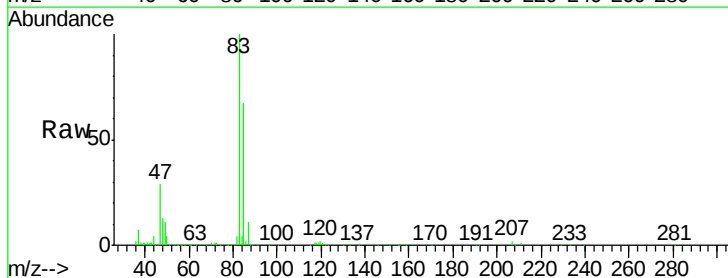
Instrument :
MSVOA_X
ClientSampleId :

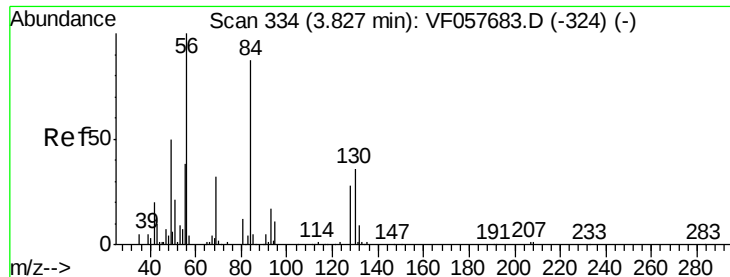
Tot Ion	Ratio	Lower	Upper
42	100		
72	36.9	31.7	47.5
71	34.9	31.7	47.5



#30
Chloroform
Concen: 27.60 ug/l
RT: 4.01 min Scan# 353
Delta R.T. 0.02 min
Lab File: VF057969.D
Acq: 23 May 2018 4:54

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.5	52.1	78.1





#31

Cyclohexane

Concen: 24.28 ug/l

RT: 3.84 min Scan# 335

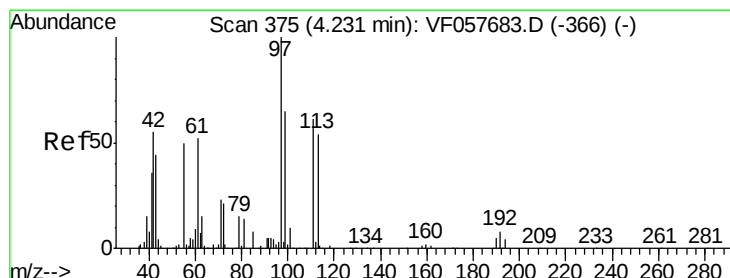
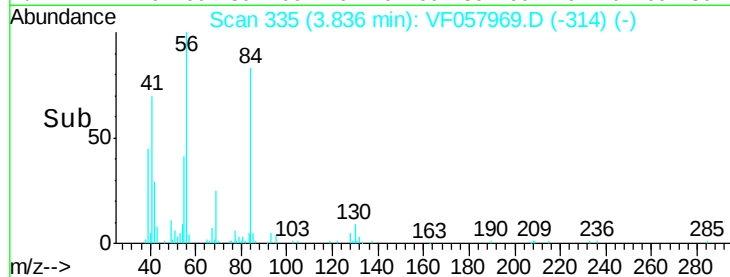
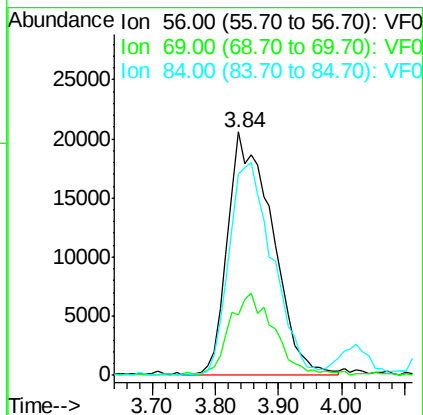
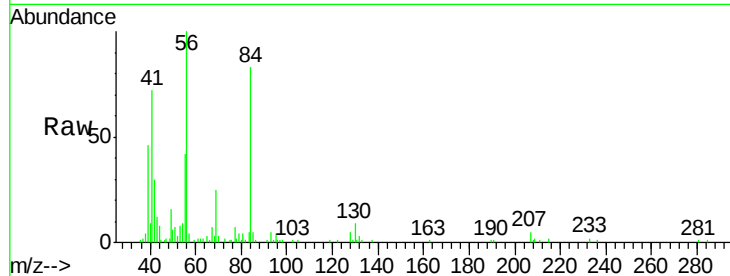
Delta R.T. 0.01 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	56	Resp:	101217
Ion	Ratio	Lower	Upper
56	100		
69	25.0	26.9	40.3#
84	82.7	69.8	104.6



#32

1,1,1-Trichloroethane

Concen: 26.76 ug/l

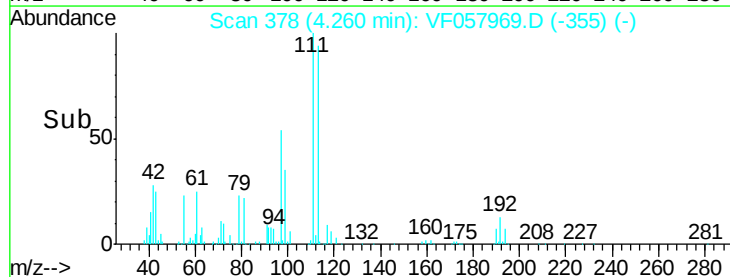
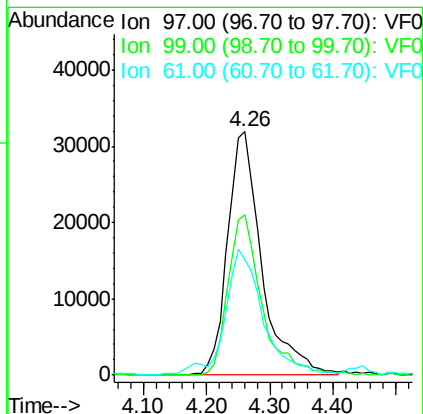
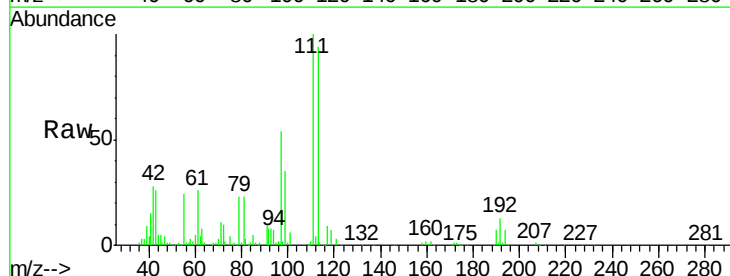
RT: 4.26 min Scan# 378

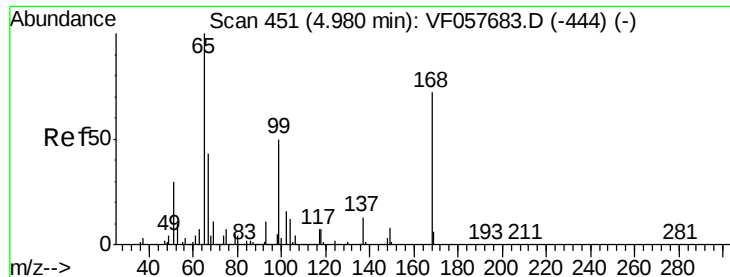
Delta R.T. 0.03 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Tgt Ion:	97	Resp:	120307
Ion	Ratio	Lower	Upper
97	100		
99	65.6	51.7	77.5
61	47.7	42.2	63.2





#33

1,2-Dichloroethane-d4

Concen: 69.52 ug/l

RT: 5.00 min Scan# 453

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

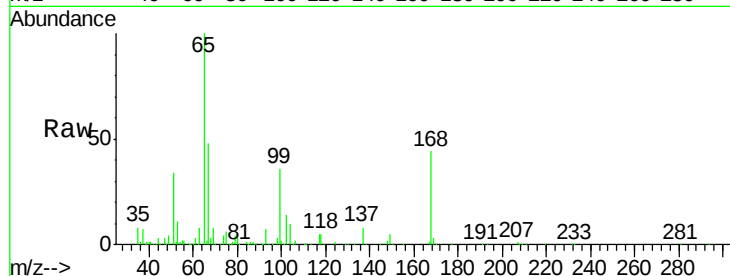
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 65 Resp: 272383

Ion Ratio Lower Upper

65 100

67 47.9 0.0 102.0



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

5.00

100000

80000

60000

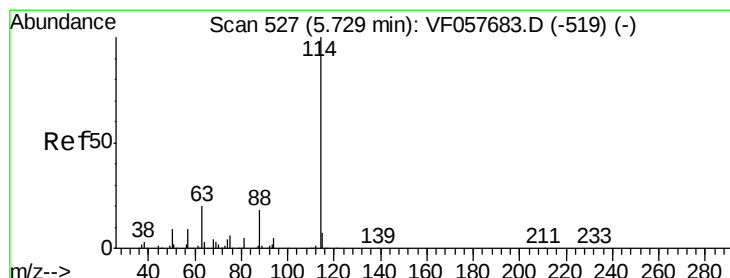
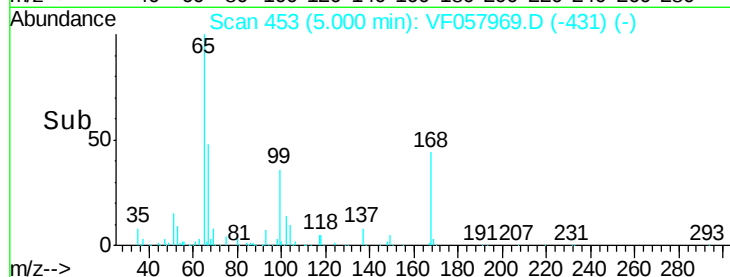
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.75 min Scan# 529

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

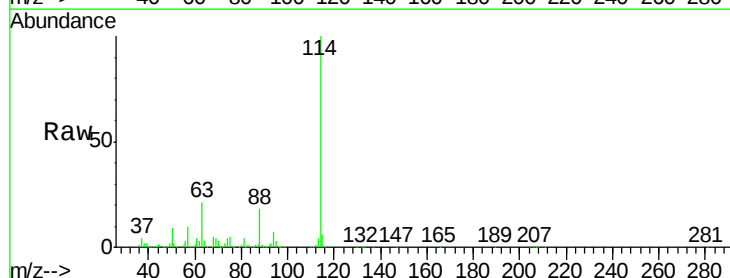
Tgt Ion: 114 Resp: 558342

Ion Ratio Lower Upper

114 100

63 21.0 0.0 40.8

88 18.0 0.0 37.2



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

5.75

250000

200000

150000

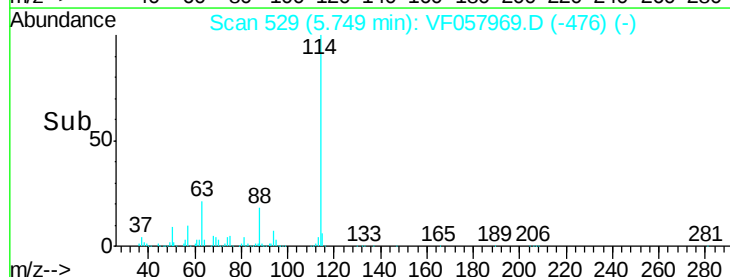
100000

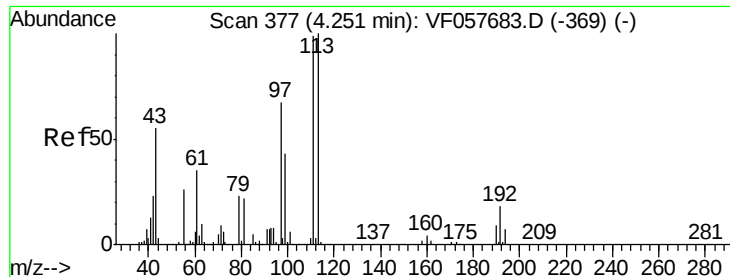
50000

0

Time-->

5.60 5.70 5.80 5.90





#35

Dibromofluoromethane

Concen: 62.86 ug/l

RT: 4.28 min Scan# 380

Delta R.T. 0.03 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

ClientSampleId :

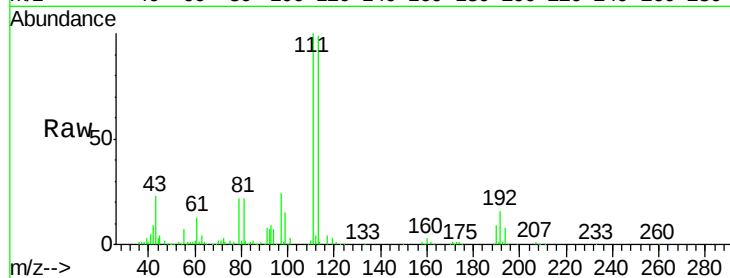
Tot Ion:113 Resp: 250962

Ion Ratio Lower Upper

113 100

111 101.0 79.1 118.7

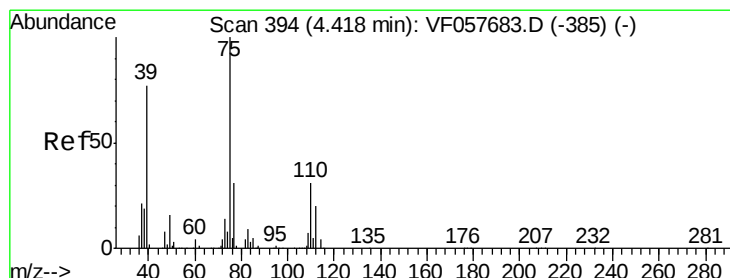
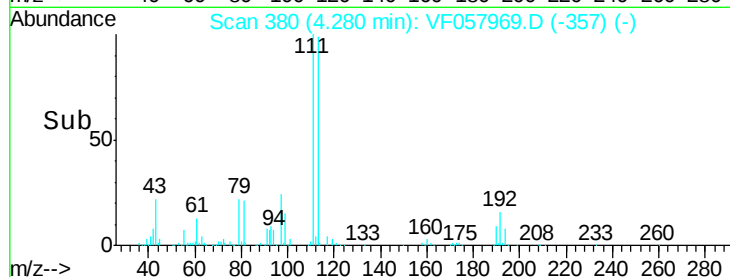
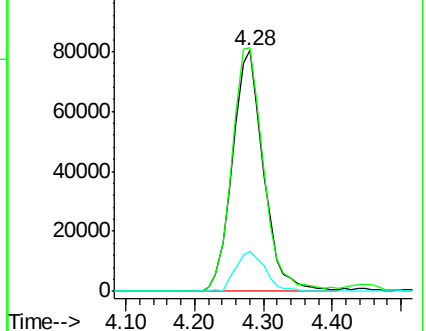
192 16.6 14.5 21.7



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 22.87 ug/l

RT: 4.44 min Scan# 396

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

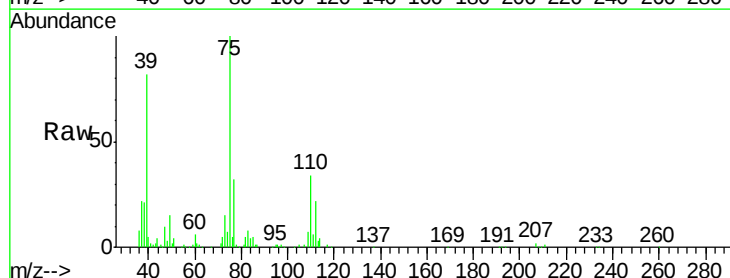
Tgt Ion: 75 Resp: 113841

Ion Ratio Lower Upper

75 100

110 33.8 15.5 46.5

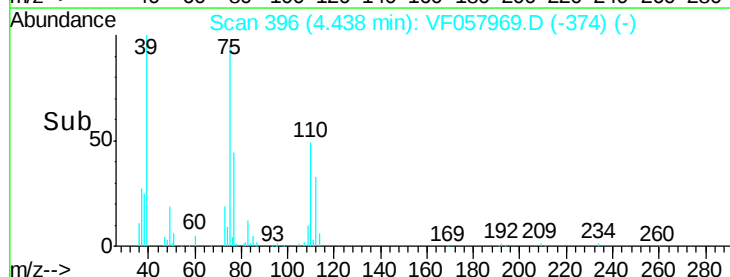
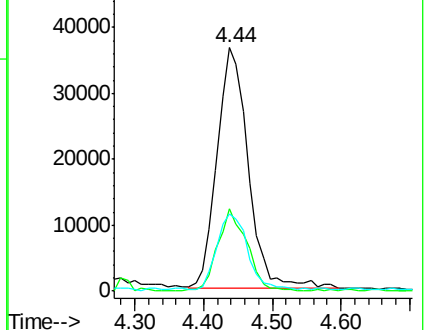
77 31.7 25.7 38.5

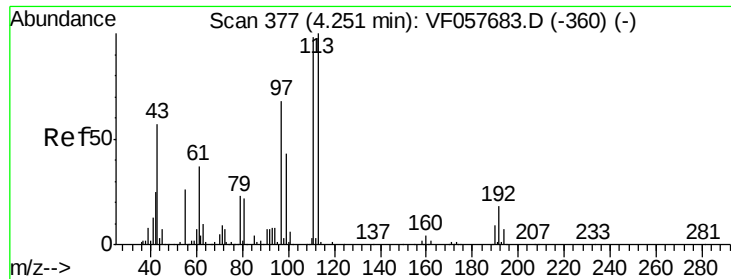


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 23.83 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :
MSVOA_X
ClientSampled :

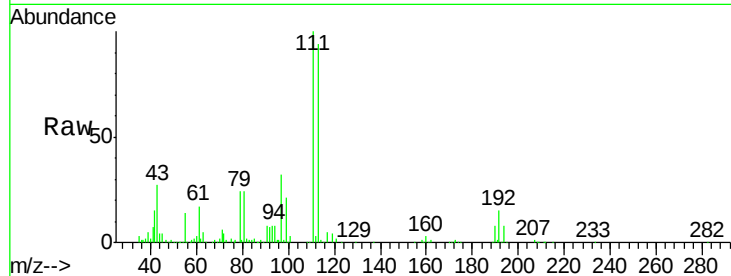
Tot Ion: 43 Resp: 84287

Ion Ratio Lower Upper

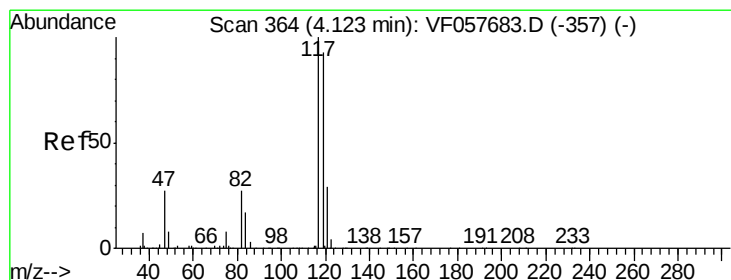
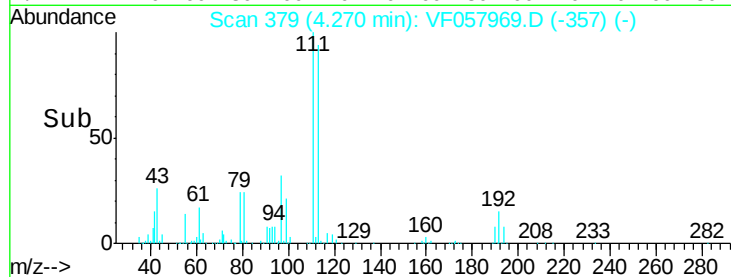
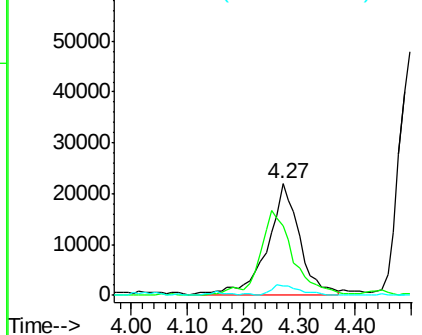
43 100

61 62.0 49.4 74.2

70 8.6 7.6 11.4



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 25.60 ug/l

RT: 4.15 min Scan# 367

Delta R.T. 0.03 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

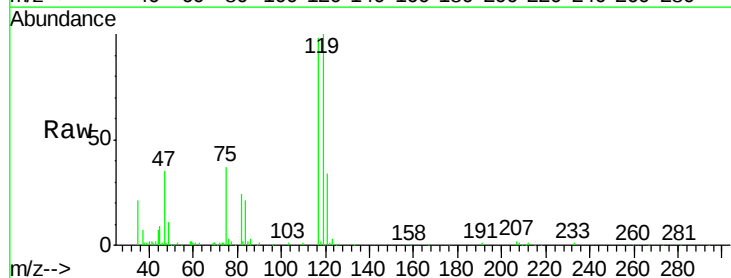
Tgt Ion: 117 Resp: 135398

Ion Ratio Lower Upper

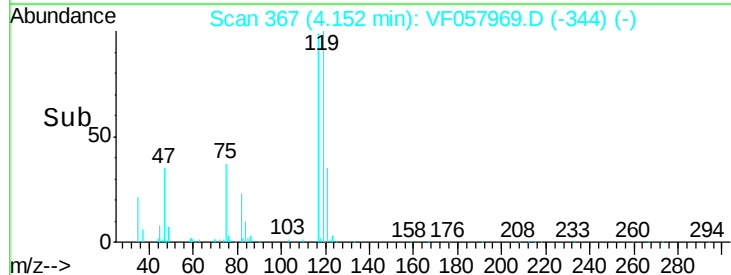
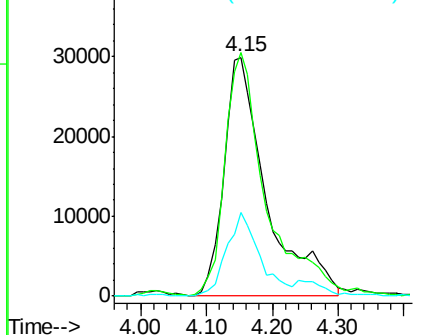
117 100

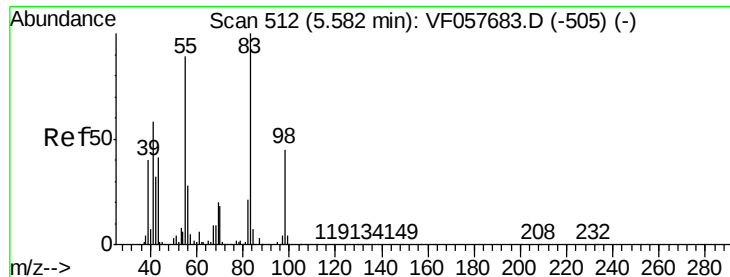
119 101.9 74.2 111.2

121 35.1 23.5 35.3



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V





#39

Methylcyclohexane

Concen: 22.48 ug/l

RT: 5.61 min Scan# 515

Delta R.T. 0.03 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

ClientSampled :

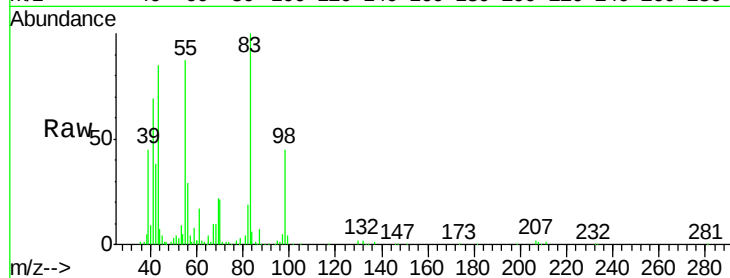
Tot Ion: 83 Resp: 117885

Ion Ratio Lower Upper

83 100

55 87.2 71.8 107.8

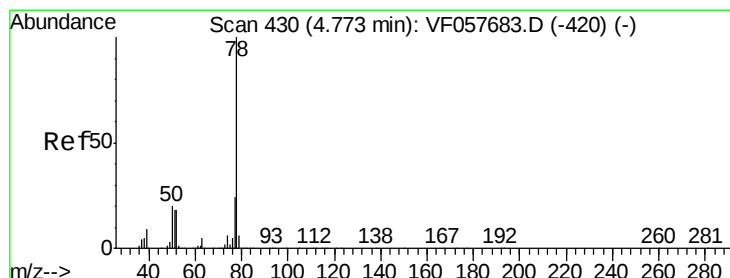
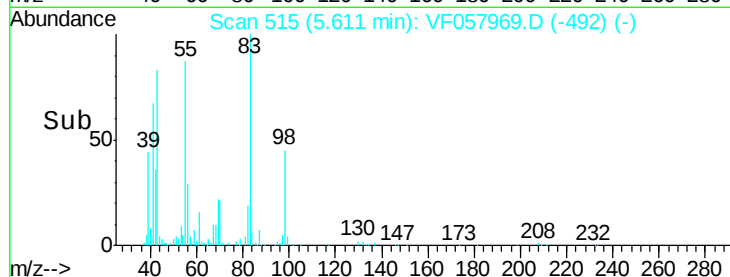
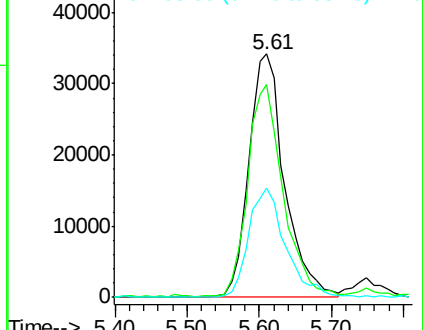
98 45.1 36.6 54.8



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#40

Benzene

Concen: 24.31 ug/l

RT: 4.79 min Scan# 432

Delta R.T. 0.02 min

Lab File: VF057969.D

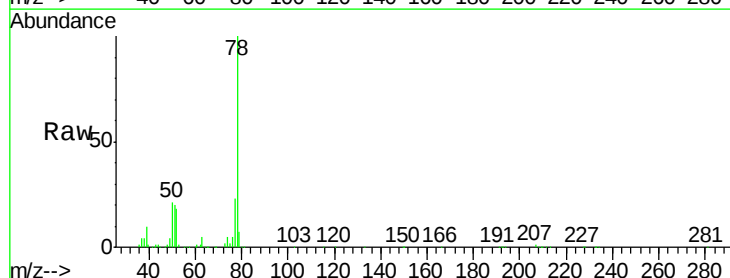
Acq: 23 May 2018 4:54

Tgt Ion: 78 Resp: 294780

Ion Ratio Lower Upper

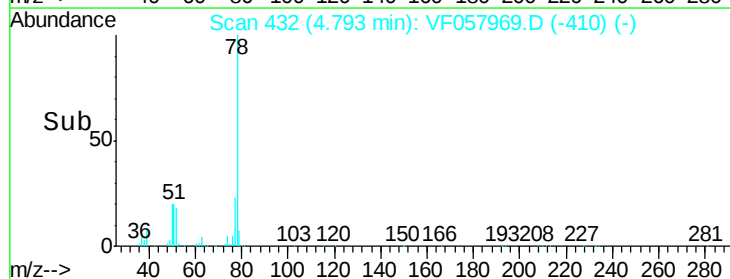
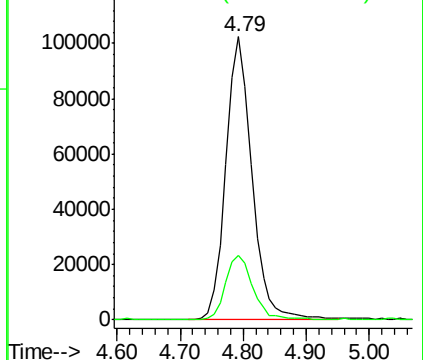
78 100

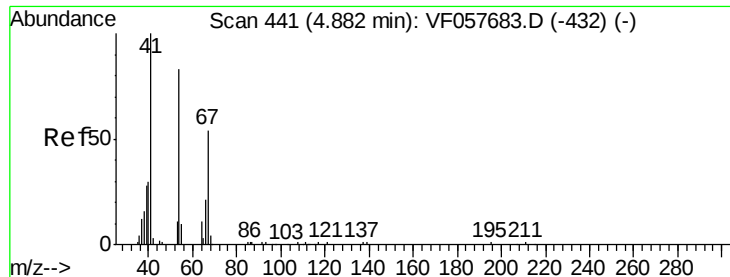
77 22.9 19.3 28.9



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0

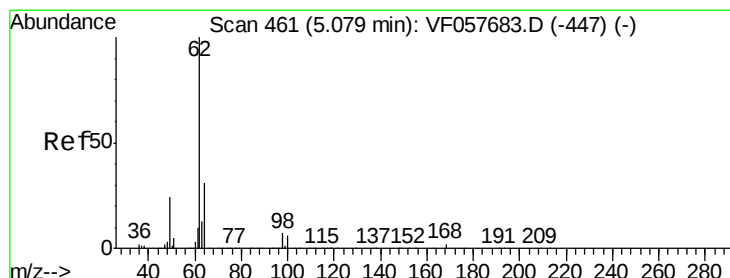
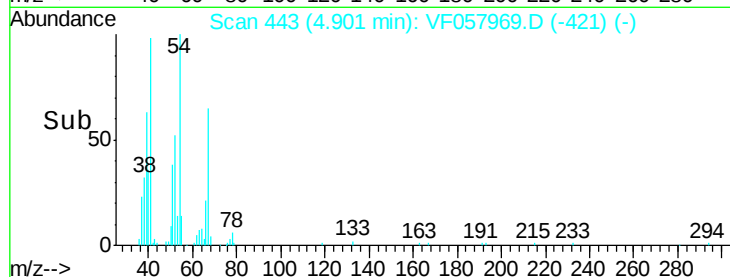
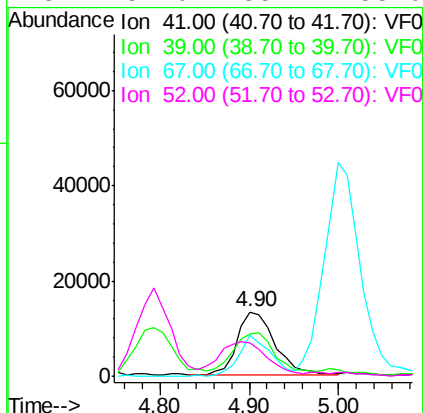
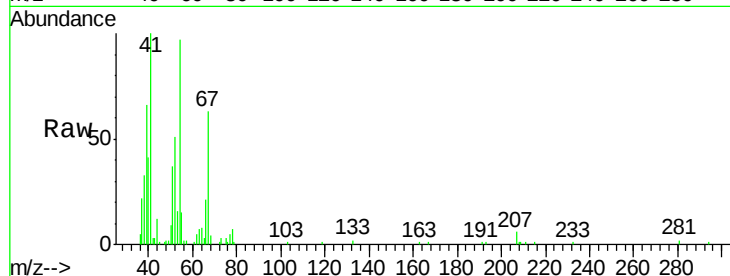




#41
Methacrylonitrile
Concen: 21.11 ug/l
RT: 4.90 min Scan# 443
Delta R.T. 0.02 min
Lab File: VF057969.D
Acq: 23 May 2018 4:54

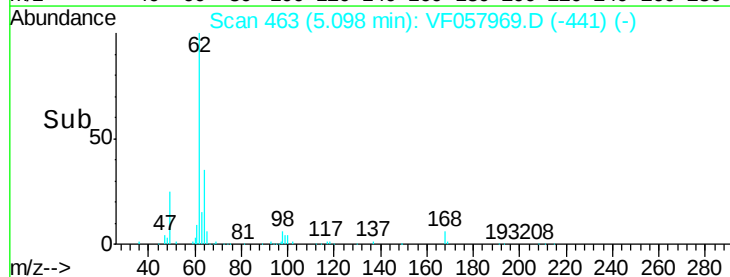
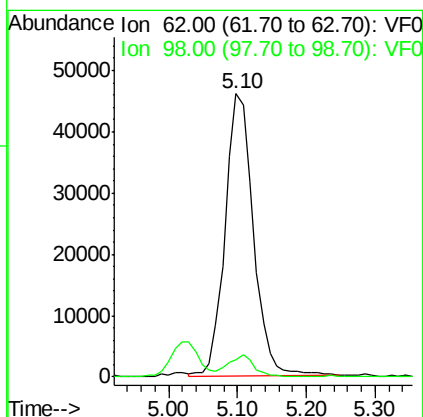
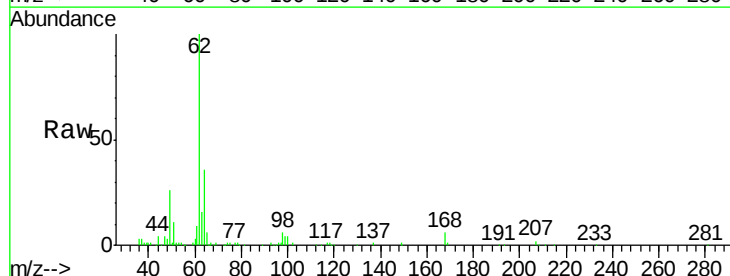
Instrument :
MSVOA_X
ClientSampleId :

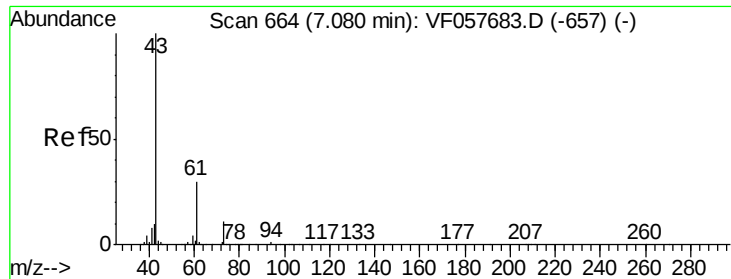
Tot Ion:	41	Resp:	38528
Ion	Ratio	Lower	Upper
41	100		
39	65.6	49.0	73.4
67	63.1	41.3	61.9
52	51.0	35.4	53.0



#42
1,2-Dichloroethane
Concen: 25.80 ug/l
RT: 5.10 min Scan# 463
Delta R.T. 0.02 min
Lab File: VF057969.D
Acq: 23 May 2018 4:54

Tgt Ion:	62	Resp:	131945
Ion	Ratio	Lower	Upper
62	100		
98	6.0	0.0	14.8



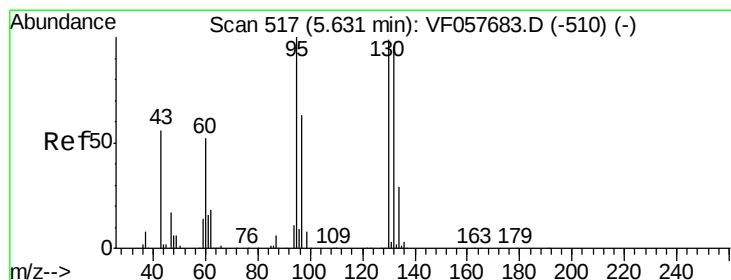
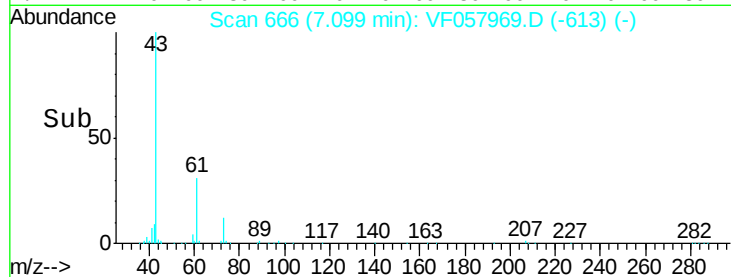
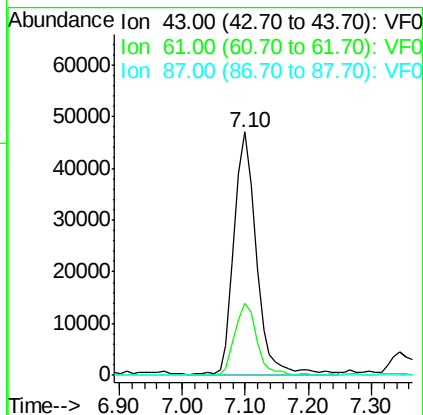
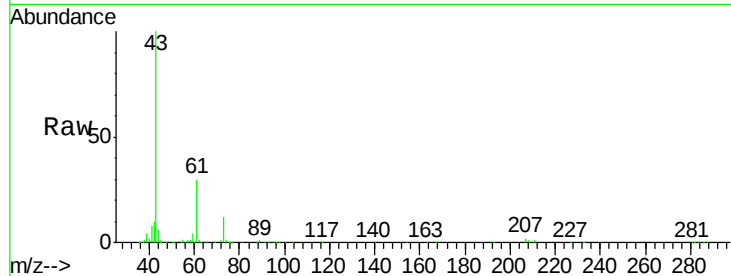


#43

Isopropyl Acetate
 Concen: 24.53 ug/l
 RT: 7.10 min Scan# 666
 Delta R.T. 0.02 min
 Lab File: VF057969.D
 Acq: 23 May 2018 4:54

Instrument :
 MSVOA_X
 ClientSampled :

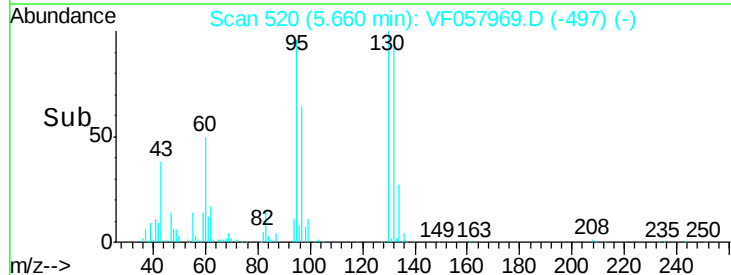
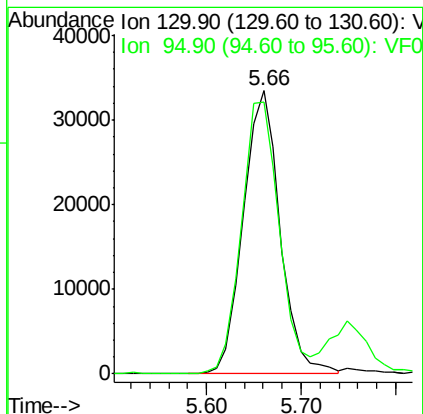
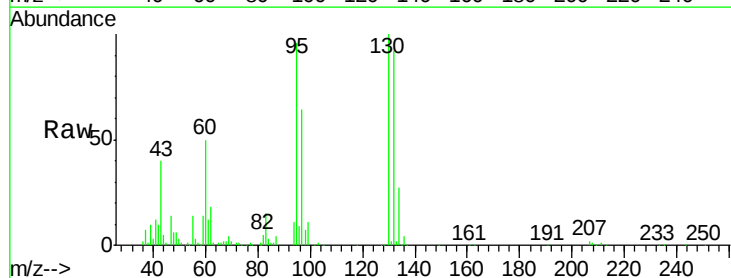
Tot Ion: 43 Resp: 115037
 Ion Ratio Lower Upper
 43 100
 61 29.8 23.8 35.6
 87 0.0 0.3 0.5#

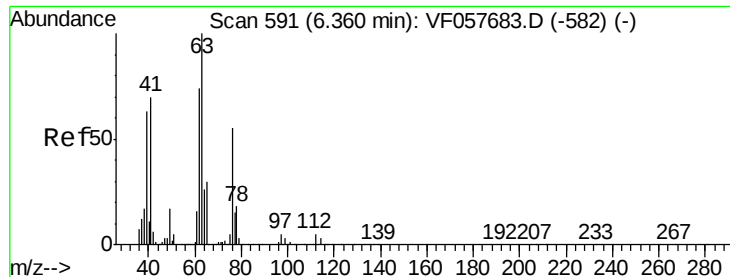


#44

Trichloroethene
 Concen: 23.72 ug/l
 RT: 5.66 min Scan# 520
 Delta R.T. 0.03 min
 Lab File: VF057969.D
 Acq: 23 May 2018 4:54

Tgt Ion: 130 Resp: 90275
 Ion Ratio Lower Upper
 130 100
 95 96.1 0.0 202.0





#45

1,2-Dichloropropane

Concen: 26.30 ug/l

RT: 6.38 min Scan# 593

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

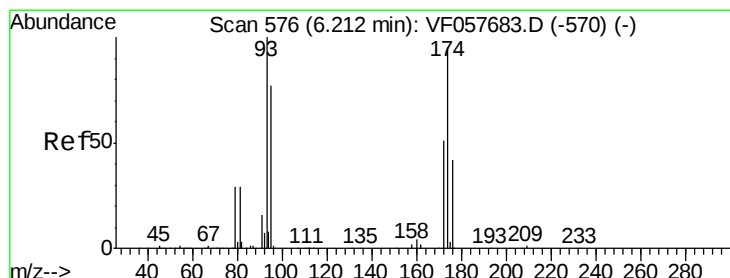
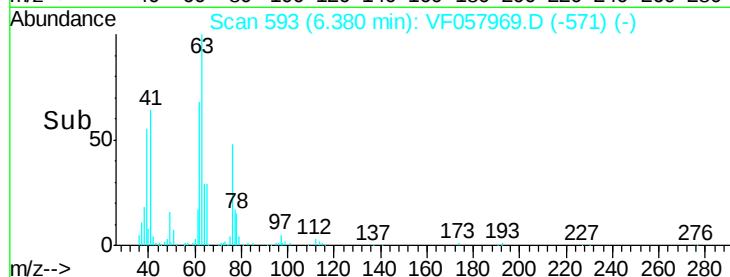
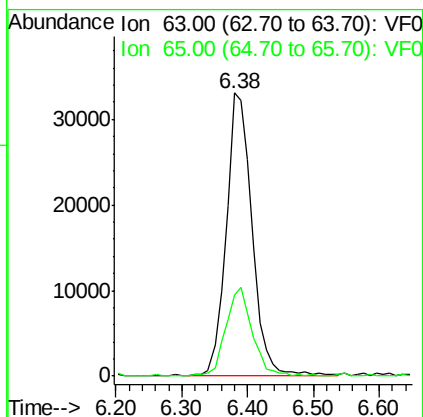
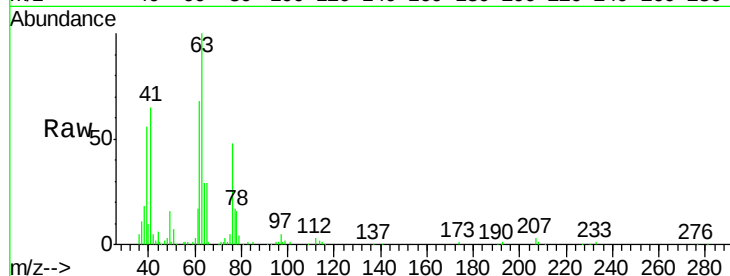
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 63 Resp: 91455

Ion Ratio Lower Upper

63 100

65 28.7 24.6 36.8



#46

Dibromomethane

Concen: 26.01 ug/l

RT: 6.24 min Scan# 579

Delta R.T. 0.03 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

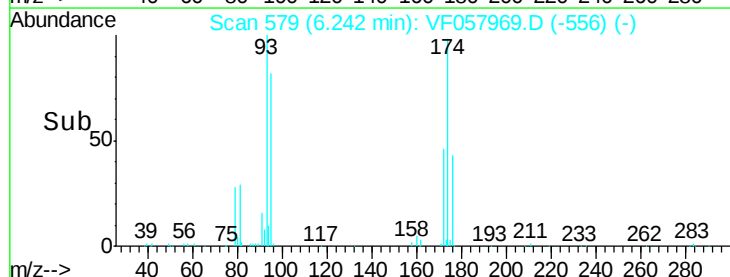
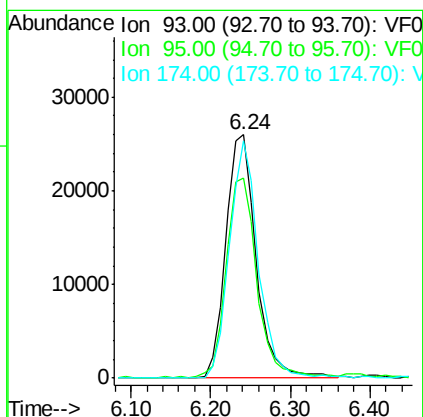
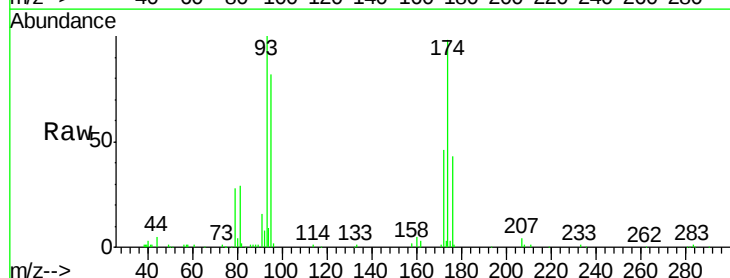
Tgt Ion: 93 Resp: 69528

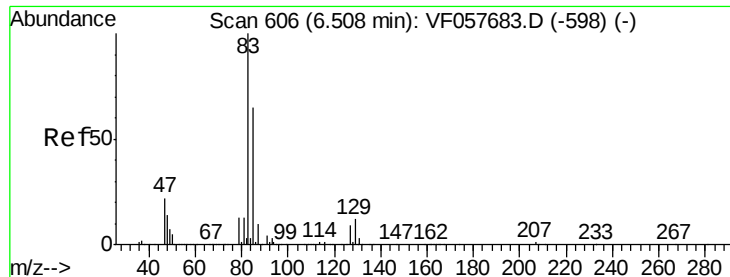
Ion Ratio Lower Upper

93 100

95 82.1 62.0 93.0

174 97.6 75.5 113.3





#47

Bromodichloromethane

Concen: 24.51 ug/l

RT: 6.54 min Scan# 609

Delta R.T. 0.03 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

ClientSampleId :

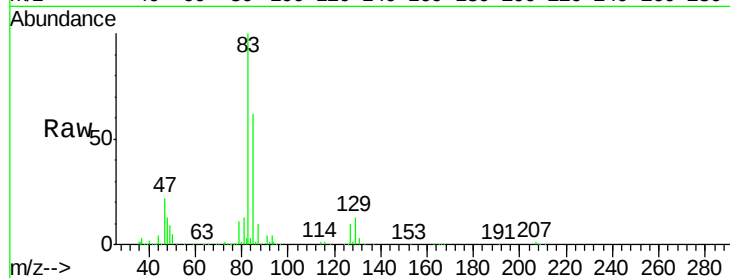
Tot Ion: 83 Resp: 146281

Ion Ratio Lower Upper

83 100

85 61.6 51.9 77.9

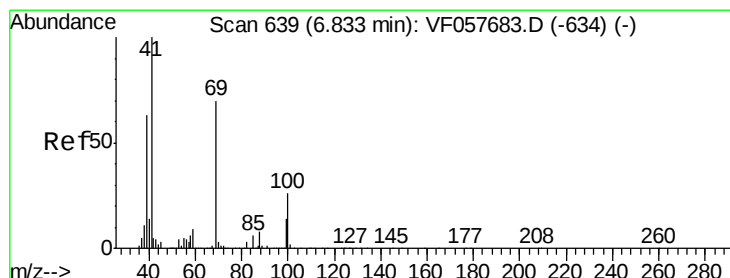
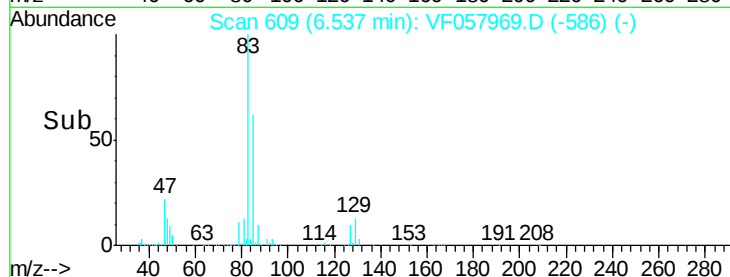
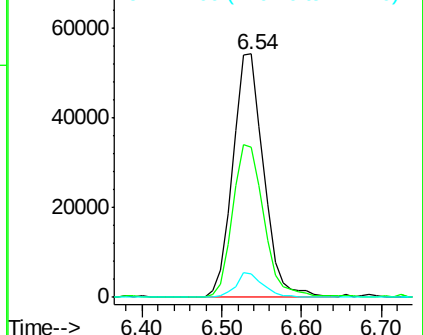
127 9.6 6.8 10.2



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 23.23 ug/l

RT: 6.85 min Scan# 641

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

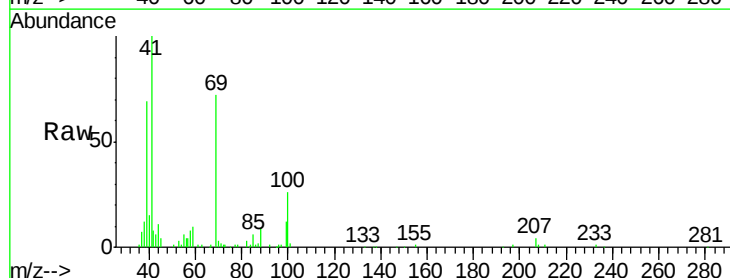
Tgt Ion: 41 Resp: 72144

Ion Ratio Lower Upper

41 100

69 71.9 55.2 82.8

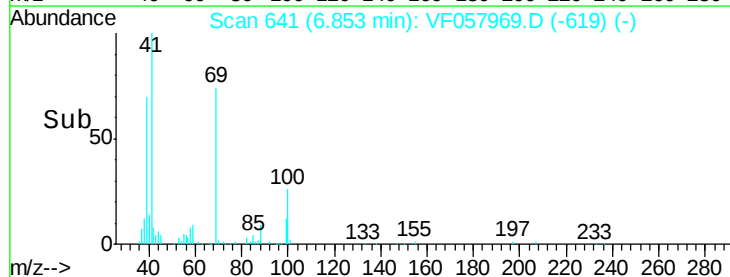
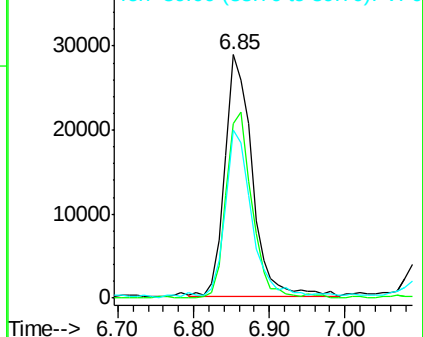
39 69.1 50.7 76.1

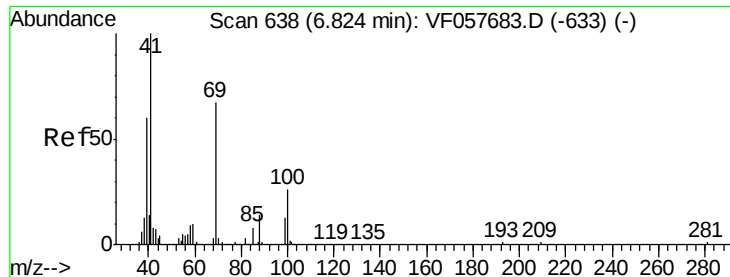


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

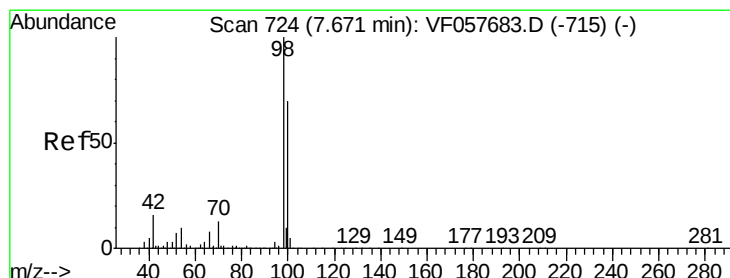
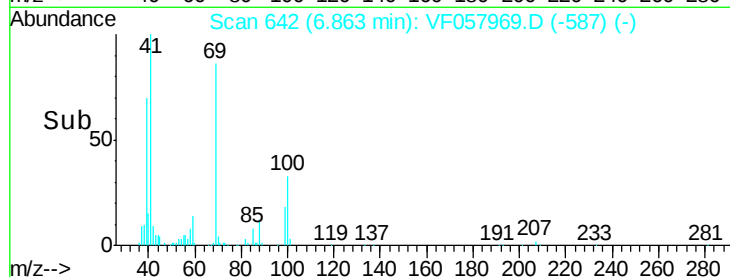
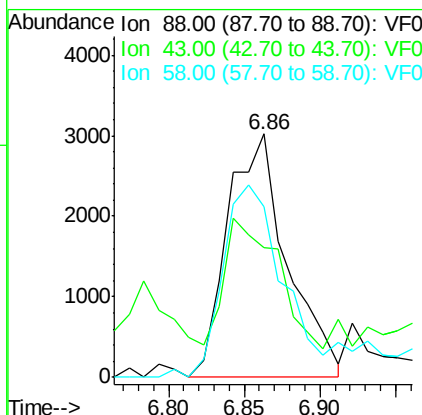
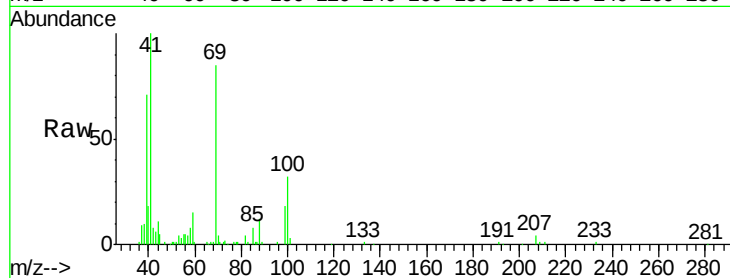




#49
 1,4-Dioxane
 Concen: 386.48 ug/l
 RT: 6.86 min Scan# 642
 Delta R.T. 0.04 min
 Lab File: VF057969.D
 Acq: 23 May 2018 4:54

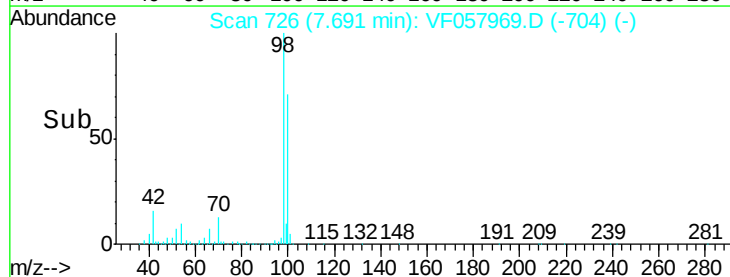
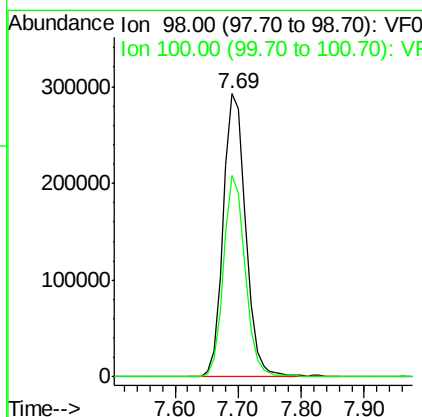
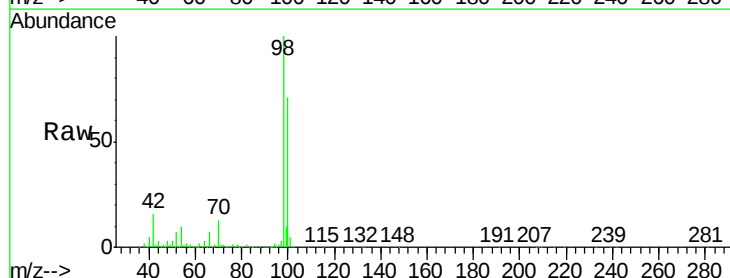
Instrument :
 MSVOA_X
 ClientSampleId :

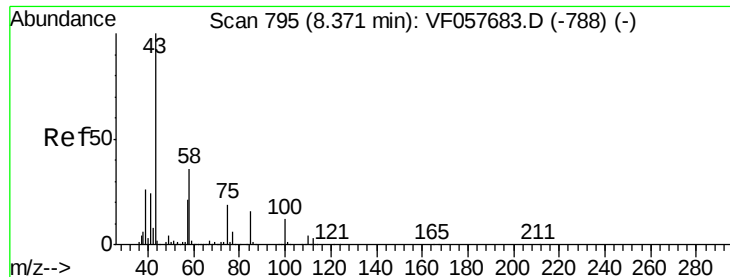
Tot Ion: 88 Resp: 8280
 Ion Ratio Lower Upper
 88 100
 43 53.3 83.2 124.8#
 58 69.9 56.6 85.0



#50
 Toluene-d8
 Concen: 59.42 ug/l
 RT: 7.69 min Scan# 726
 Delta R.T. 0.02 min
 Lab File: VF057969.D
 Acq: 23 May 2018 4:54

Tgt Ion: 98 Resp: 727416
 Ion Ratio Lower Upper
 98 100
 100 71.0 55.8 83.6





#51

4-Methyl-2-Pentanone

Concen: 128.52 ug/l

RT: 8.39 min Scan# 797

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

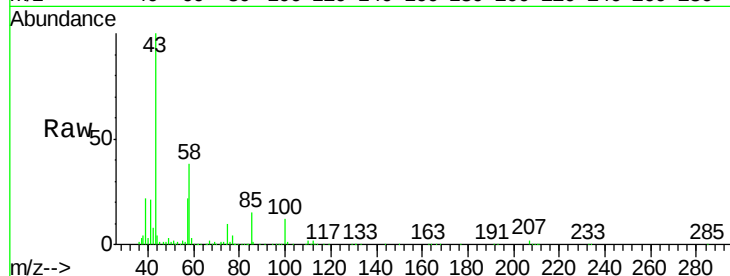
ClientSampleId :

Tot Ion: 43 Resp: 408344

Ion Ratio Lower Upper

43 100

58 37.7 28.3 42.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

200000

150000

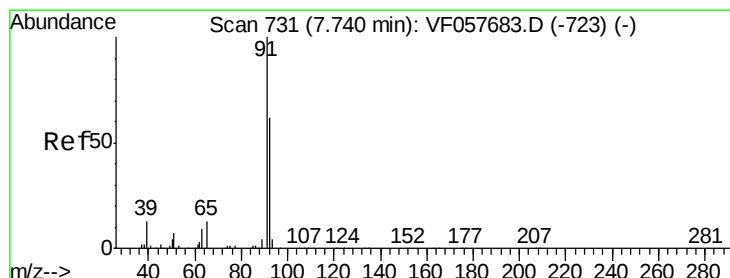
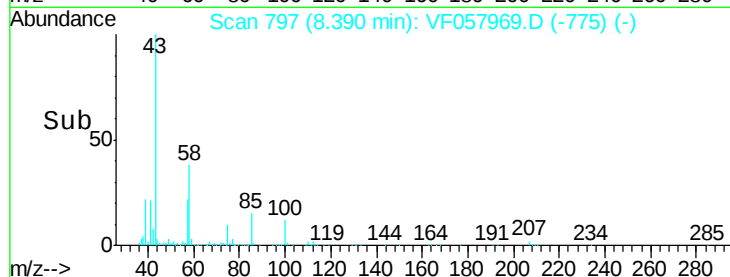
100000

50000

0

8.20 8.30 8.40 8.50 8.60

Time-->



#52

Toluene

Concen: 23.92 ug/l

RT: 7.76 min Scan# 733

Delta R.T. 0.02 min

Lab File: VF057969.D

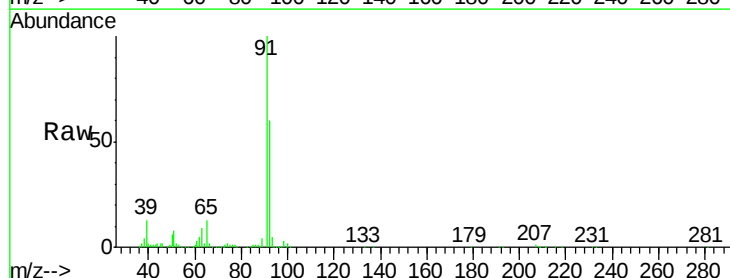
Acq: 23 May 2018 4:54

Tgt Ion: 92 Resp: 208632

Ion Ratio Lower Upper

92 100

91 167.8 130.2 195.4



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

150000

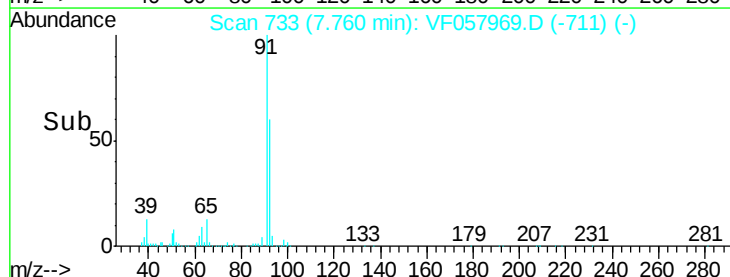
100000

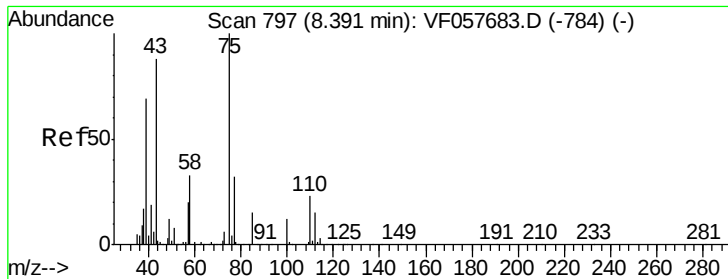
50000

0

7.60 7.70 7.80 7.90

Time-->





#53

t-1,3-Dichloropropene

Concen: 22.68 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

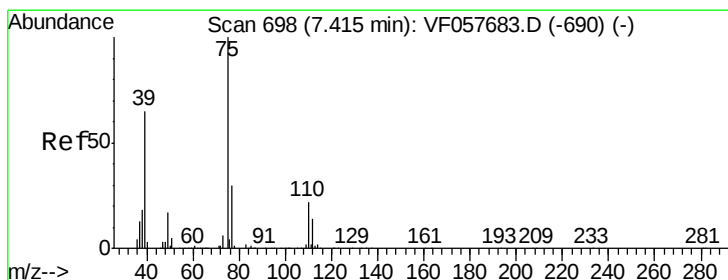
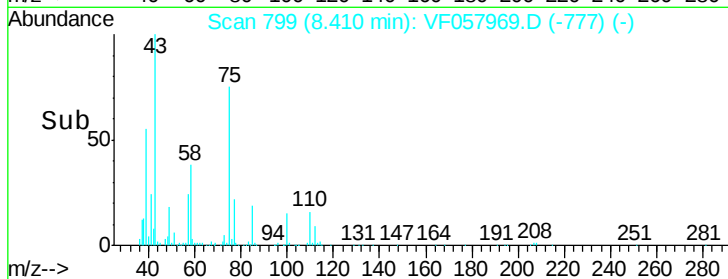
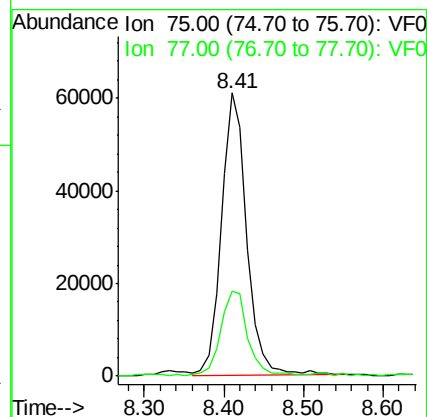
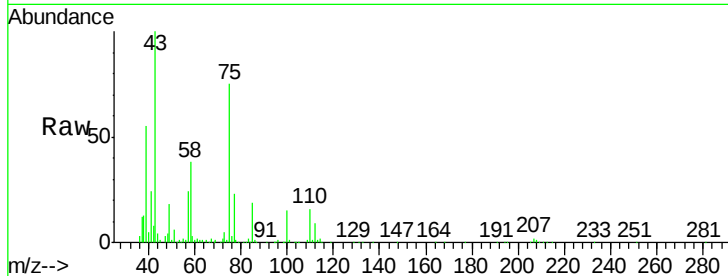
ClientSampleId :

Tot Ion: 75 Resp: 135912

Ion Ratio Lower Upper

75 100

77 30.1 25.4 38.0



#54

cis-1,3-Dichloropropene

Concen: 23.96 ug/l

RT: 7.44 min Scan# 701

Delta R.T. 0.03 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

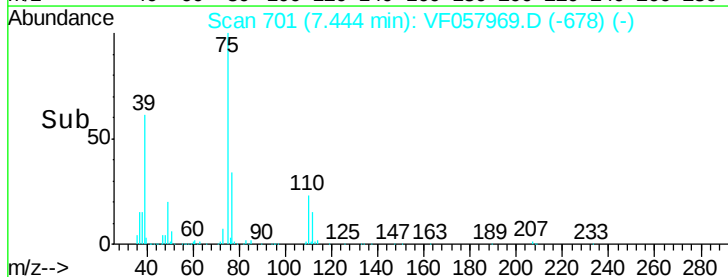
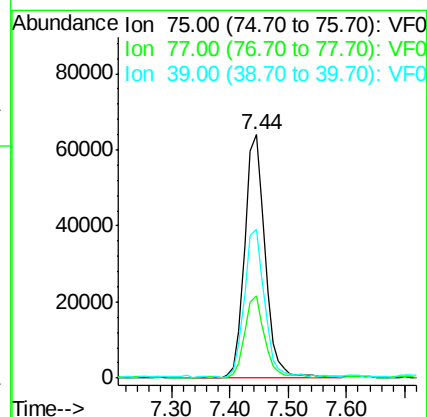
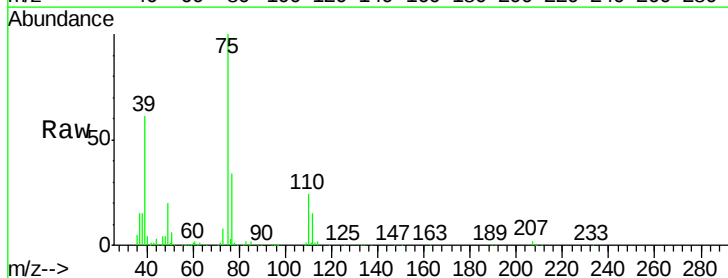
Tgt Ion: 75 Resp: 157917

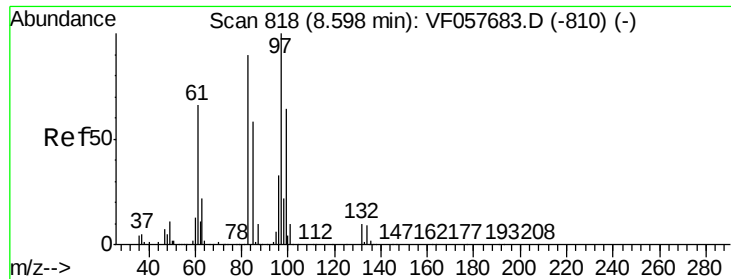
Ion Ratio Lower Upper

75 100

77 33.8 24.6 36.8

39 61.1 53.0 79.4





#55

1,1,2-Trichloroethane

Concen: 25.10 ug/l

RT: 8.63 min Scan# 821

Delta R.T. 0.03 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 97 Resp: 82797

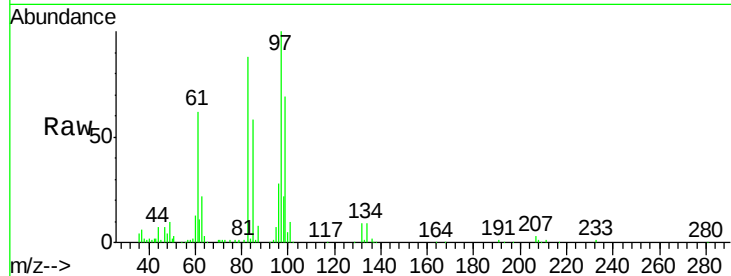
Ion Ratio Lower Upper

97 100

83 87.9 73.0 109.4

85 57.6 47.5 71.3

99 68.7 51.5 77.3

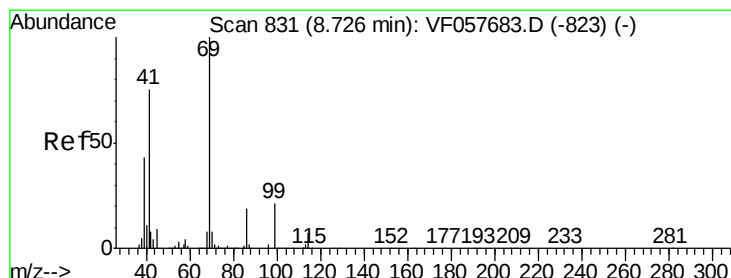
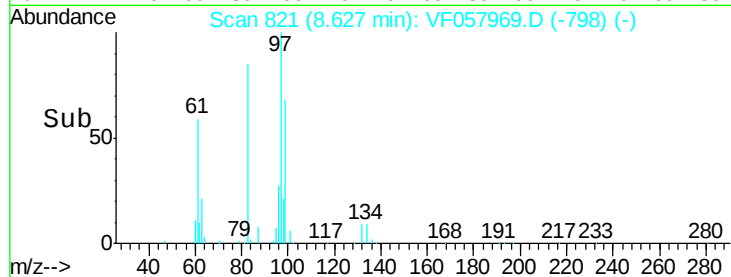
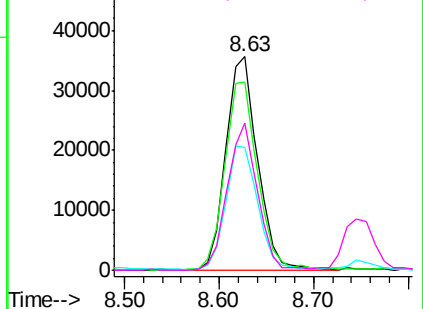


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 22.54 ug/l

RT: 8.75 min Scan# 833

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

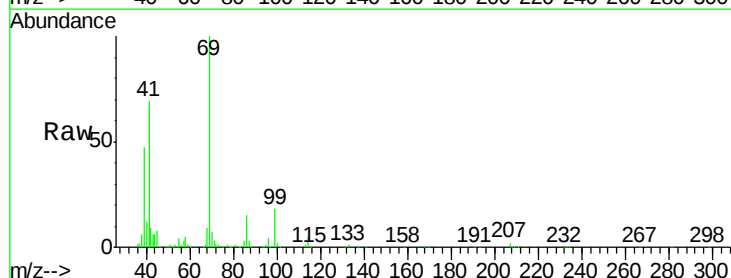
Tgt Ion: 69 Resp: 102783

Ion Ratio Lower Upper

69 100

41 68.7 61.1 91.7

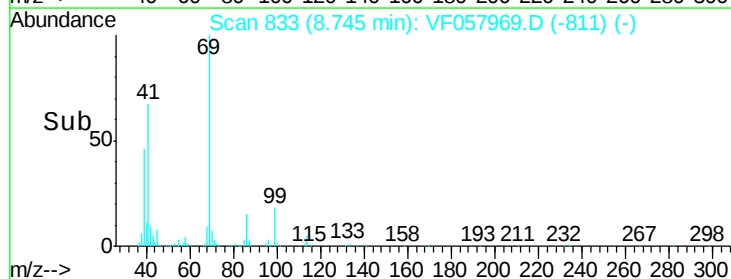
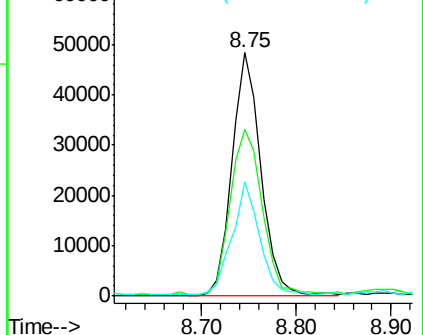
39 47.2 35.3 52.9

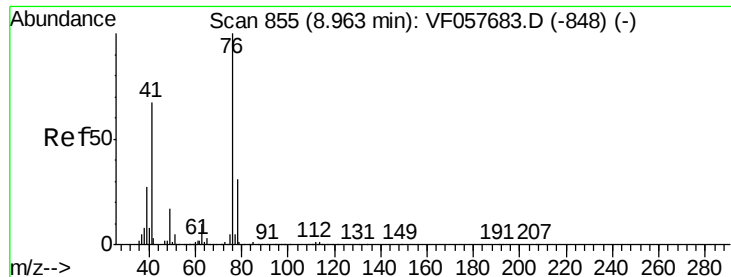


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 26.61 ug/l

RT: 8.98 min Scan# 857

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

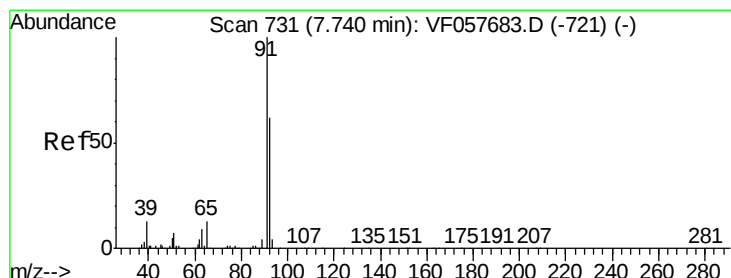
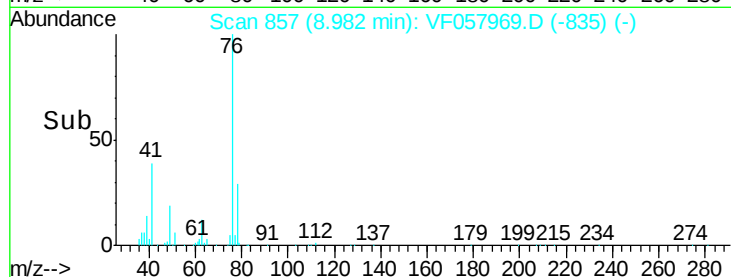
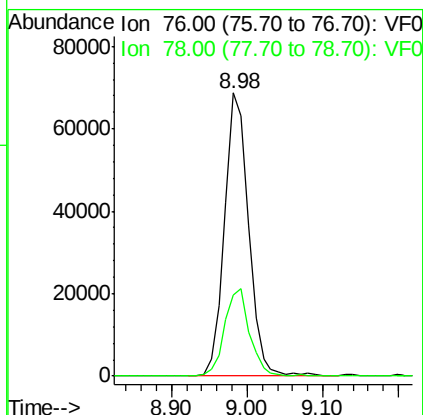
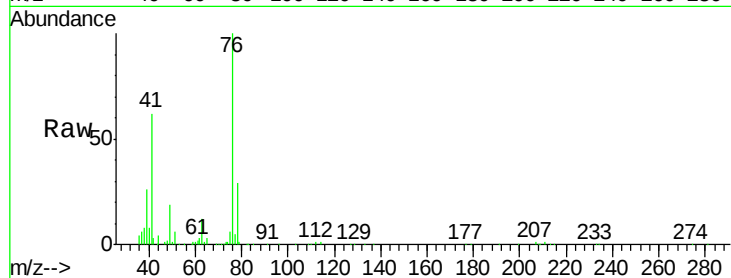
ClientSampleId :

Tot Ion: 76 Resp: 151753

Ion Ratio Lower Upper

76 100

78 28.7 25.0 37.6



#58

2-Chloroethyl Vinyl ether

Concen: 51.70 ug/l

RT: 7.76 min Scan# 733

Delta R.T. 0.02 min

Lab File: VF057969.D

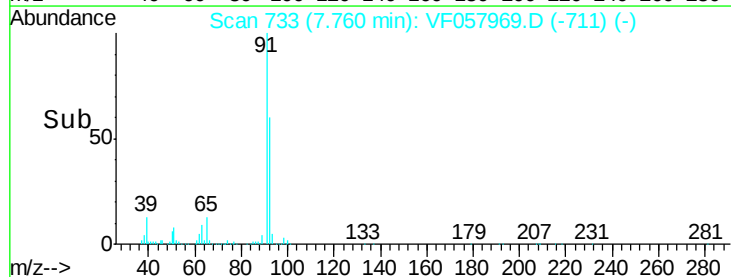
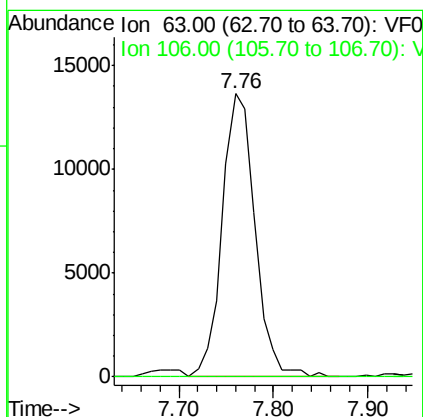
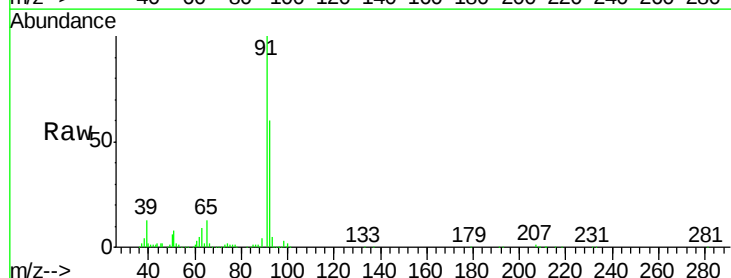
Acq: 23 May 2018 4:54

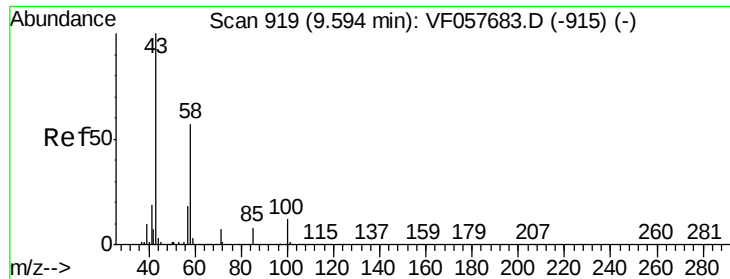
Tgt Ion: 63 Resp: 32877

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

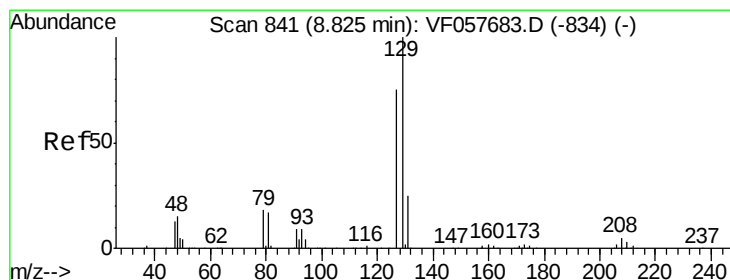
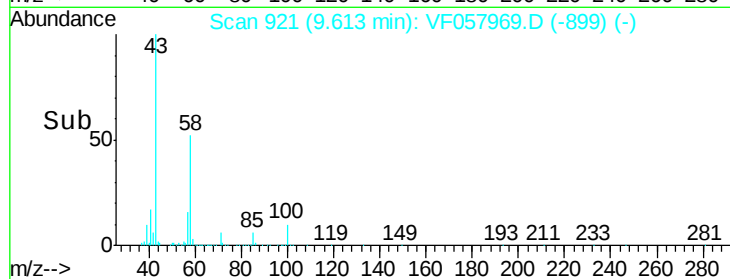
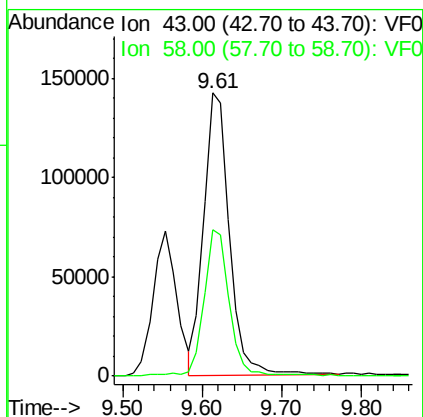
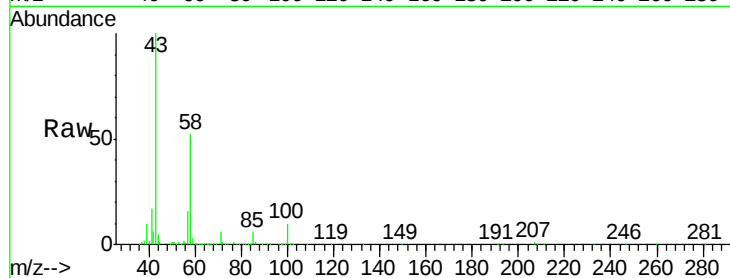




#59
2-Hexanone
Concen: 116.81 ug/l
RT: 9.61 min Scan# 921
Delta R.T. 0.02 min
Lab File: VF057969.D
Acq: 23 May 2018 4:54

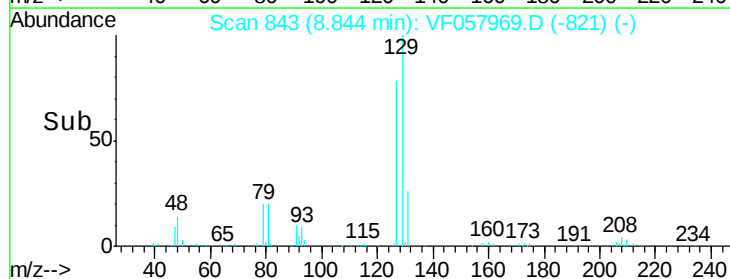
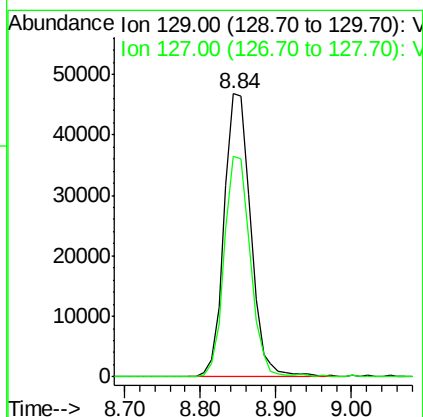
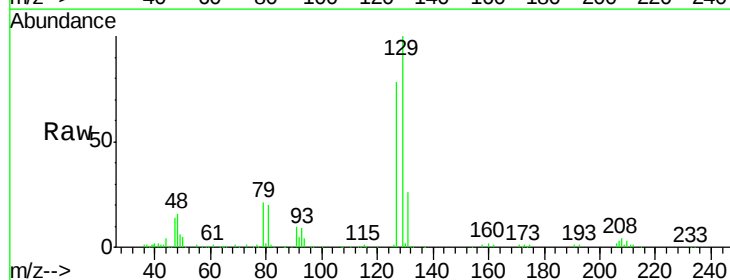
Instrument :
MSVOA_X
ClientSampled :

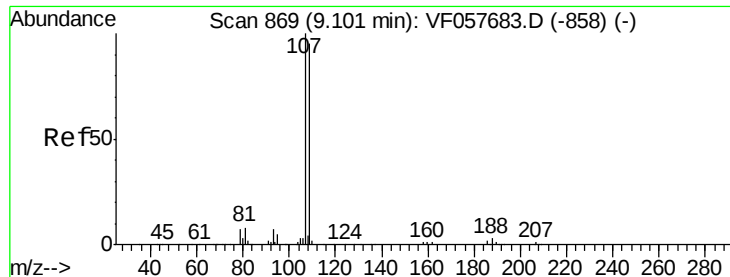
Tot Ion: 43 Resp: 319607
Ion Ratio Lower Upper
43 100
58 51.9 25.4 76.4



#60
Dibromochloromethane
Concen: 23.04 ug/l
RT: 8.84 min Scan# 843
Delta R.T. 0.02 min
Lab File: VF057969.D
Acq: 23 May 2018 4:54

Tgt Ion: 129 Resp: 114079
Ion Ratio Lower Upper
129 100
127 77.9 37.3 111.9





#61

1,2-Dibromoethane

Concen: 24.51 ug/l

RT: 9.12 min Scan# 871

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

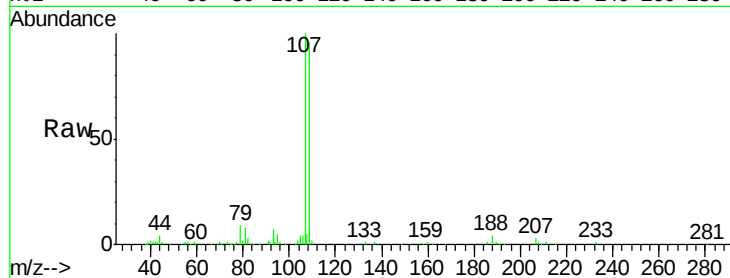
ClientSampleId :

Tot Ion:107 Resp: 94985

Ion Ratio Lower Upper

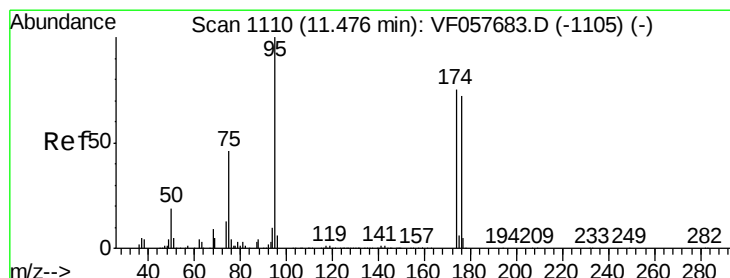
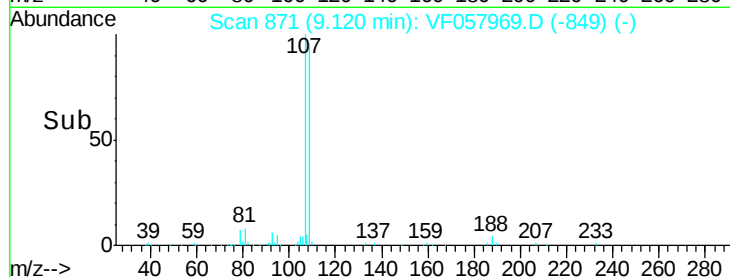
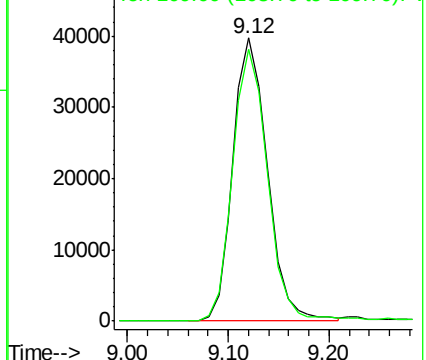
107 100

109 96.1 76.5 114.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 60.88 ug/l

RT: 11.50 min Scan# 1112

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

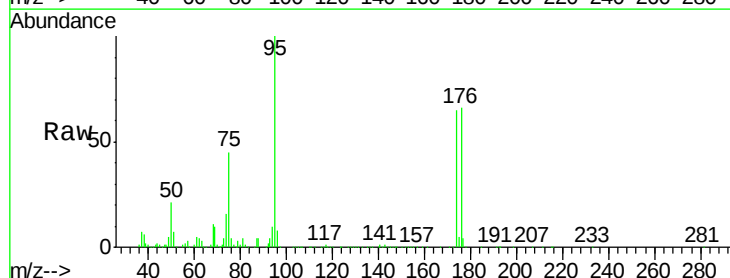
Tgt Ion: 95 Resp: 372960

Ion Ratio Lower Upper

95 100

174 65.5 0.0 149.8

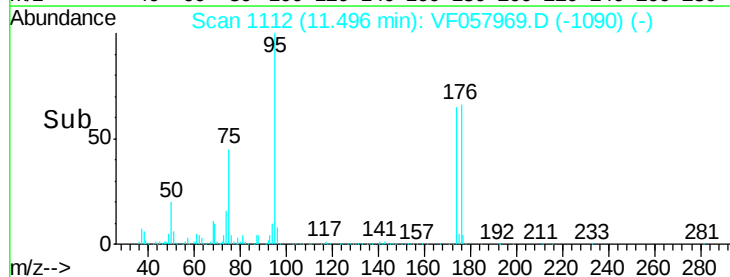
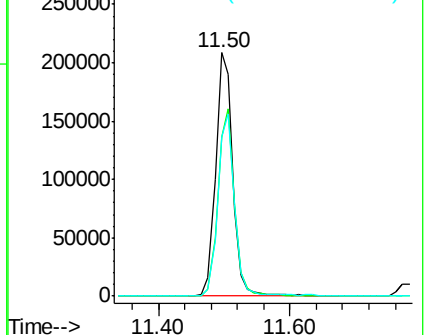
176 65.6 0.0 143.0

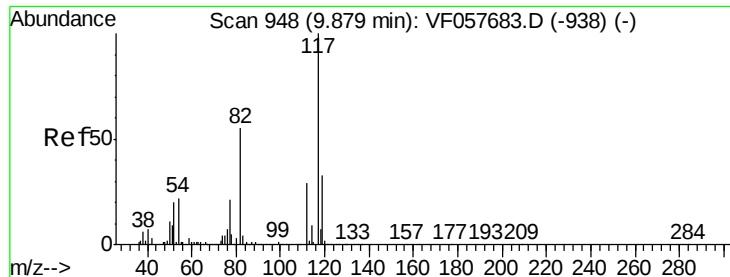


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

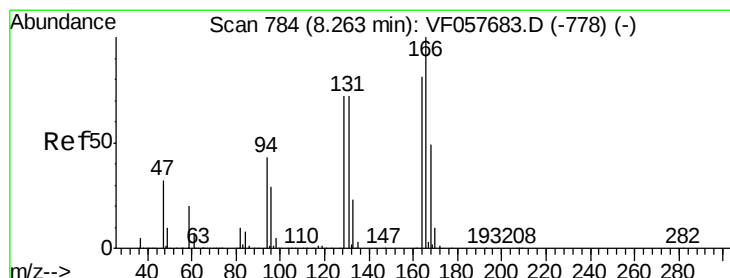
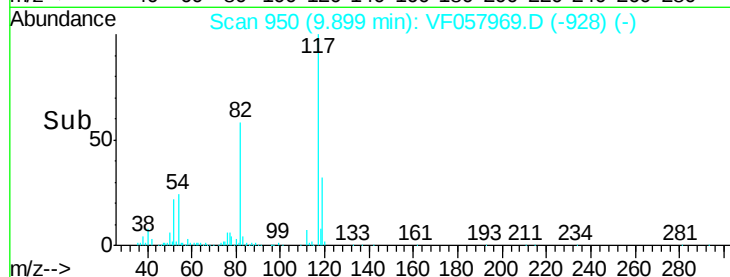
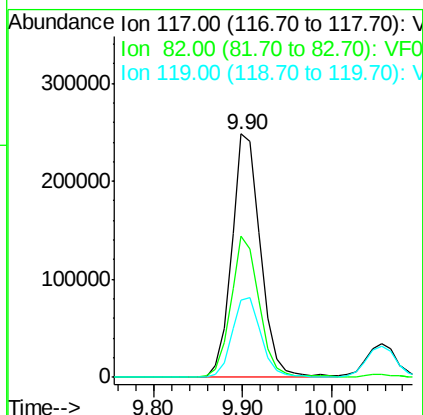
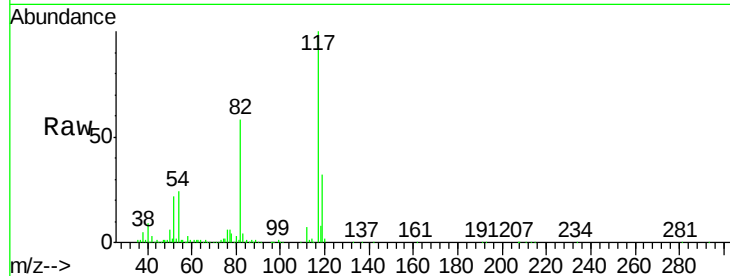




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.90 min Scan# 950
Delta R.T. 0.02 min
Lab File: VF057969.D
Acq: 23 May 2018 4:54

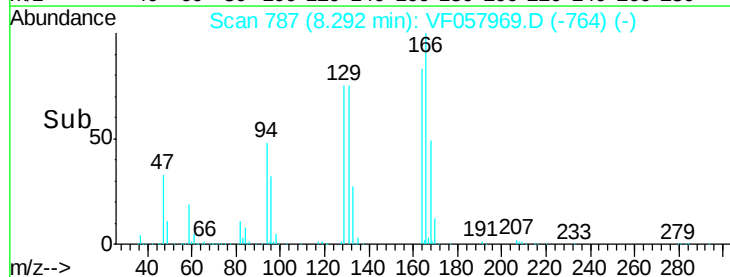
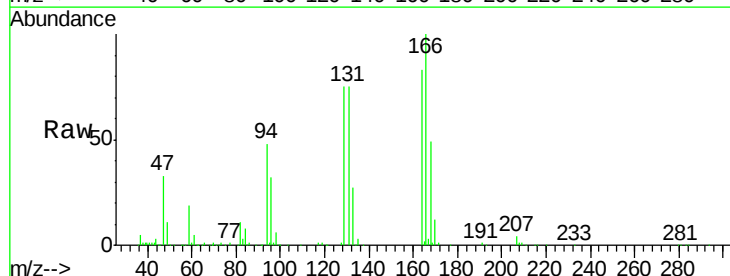
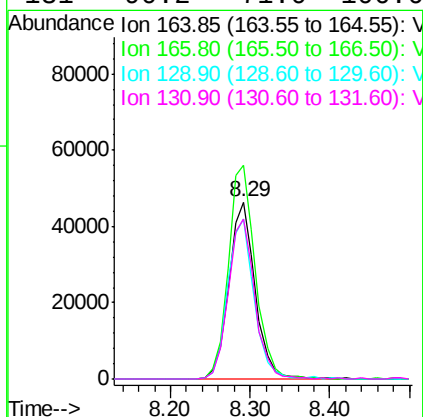
Instrument :
MSVOA_X
ClientSampleId :

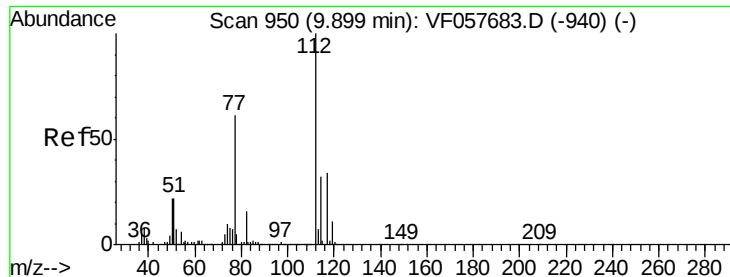
Tot Ion	Ratio	Lower	Upper
117	100		
82	58.2	44.6	66.8
119	31.9	26.6	39.8



#64
Tetrachloroethene
Concen: 28.85 ug/l
RT: 8.29 min Scan# 787
Delta R.T. 0.03 min
Lab File: VF057969.D
Acq: 23 May 2018 4:54

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.5	99.4	149.0
129	90.4	72.1	108.1
131	90.2	71.0	106.6





#65

Chlorobenzene

Concen: 24.55 ug/l

RT: 9.93 min Scan# 953

Delta R.T. 0.03 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

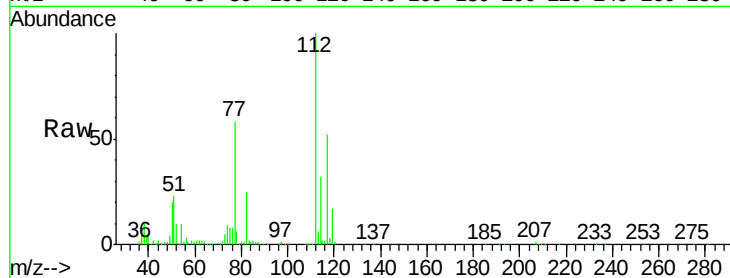
ClientSampled :

Tot Ion:112 Resp: 260994

Ion Ratio Lower Upper

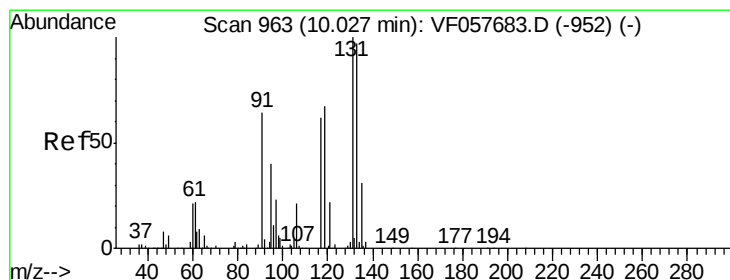
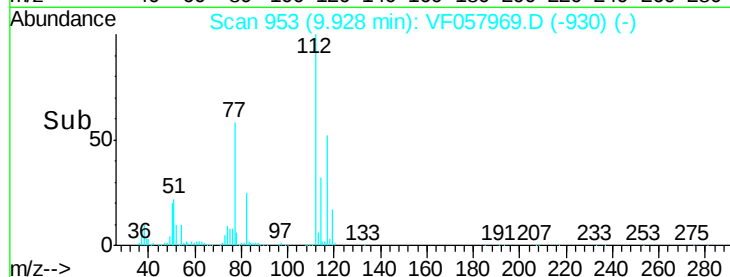
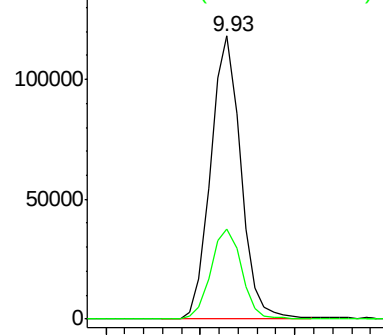
112 100

114 31.9 25.3 37.9



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 23.67 ug/l

RT: 10.06 min Scan# 966

Delta R.T. 0.03 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

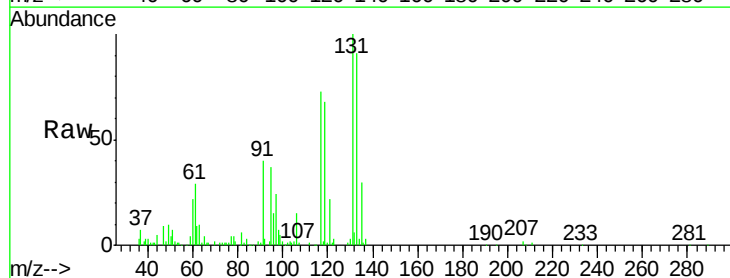
Tgt Ion:131 Resp: 100937

Ion Ratio Lower Upper

131 100

133 91.3 48.4 145.3

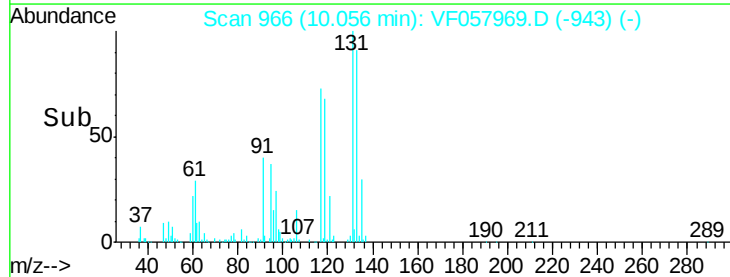
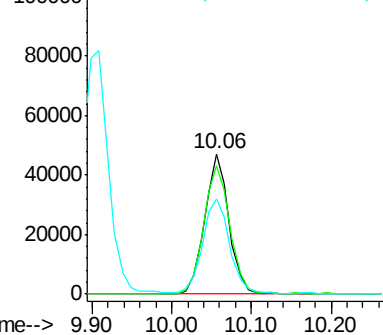
119 68.2 35.3 105.9

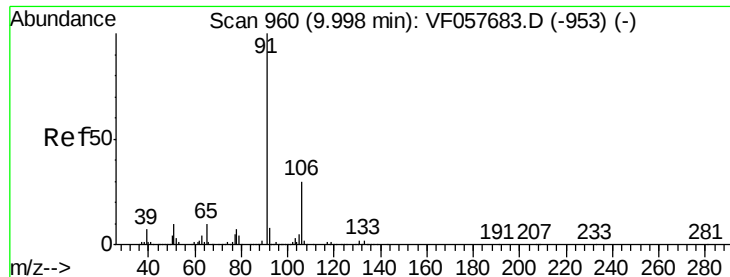


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 24.11 ug/l

RT: 10.03 min Scan# 963

Delta R.T. 0.03 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

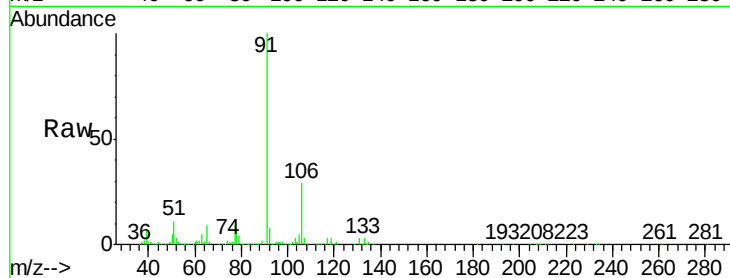
ClientSampleId :

Tot Ion: 91 Resp: 446631

Ion Ratio Lower Upper

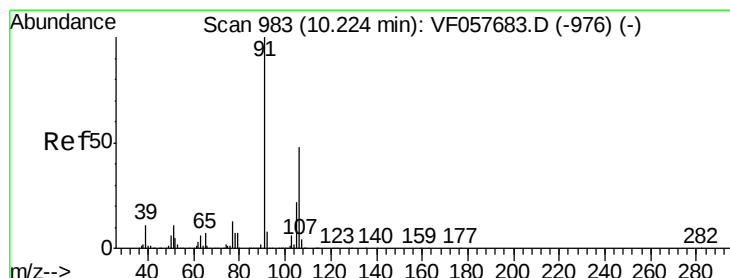
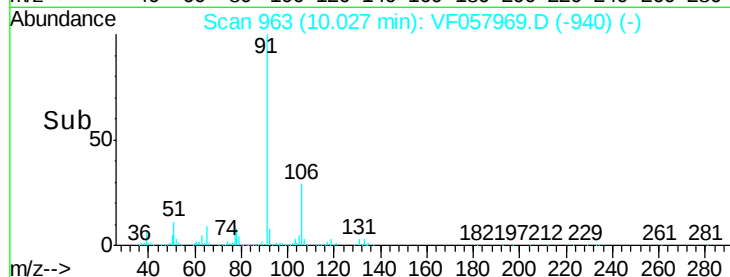
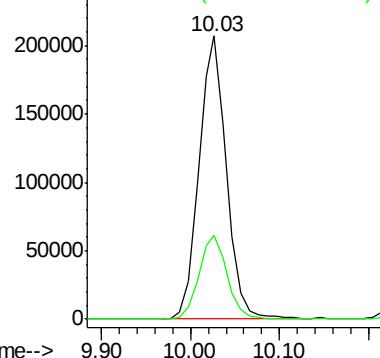
91 100

106 29.5 24.1 36.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 48.99 ug/l

RT: 10.25 min Scan# 986

Delta R.T. 0.03 min

Lab File: VF057969.D

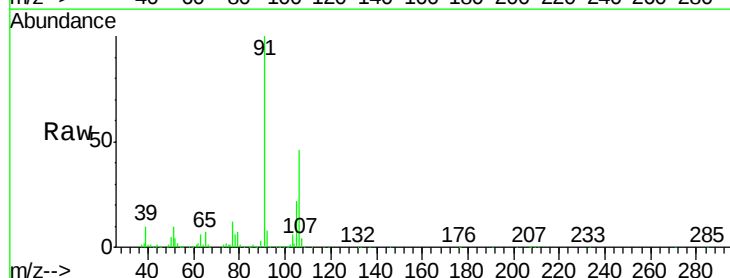
Acq: 23 May 2018 4:54

Tgt Ion: 106 Resp: 326633

Ion Ratio Lower Upper

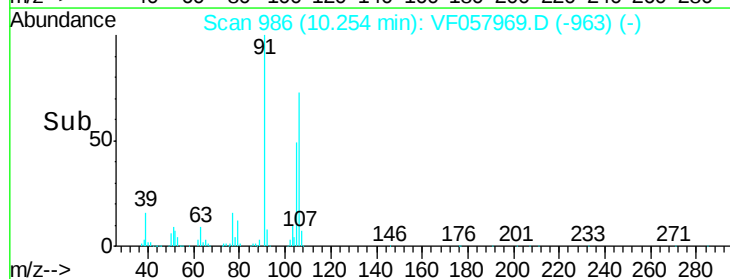
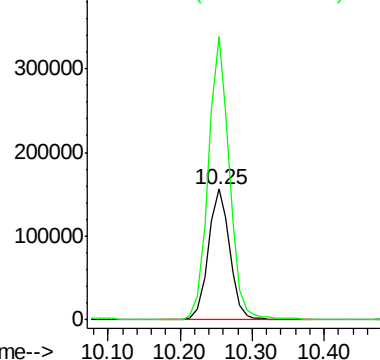
106 100

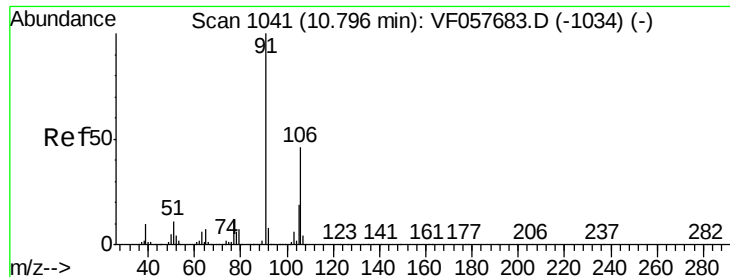
91 216.4 166.7 250.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

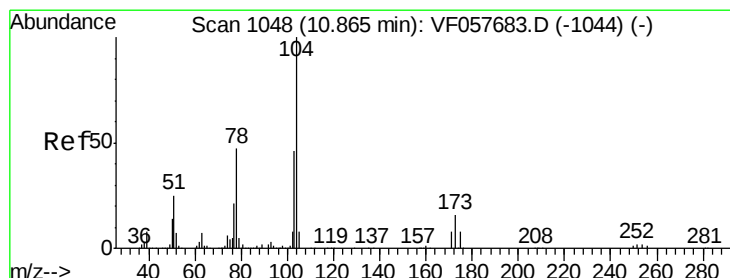
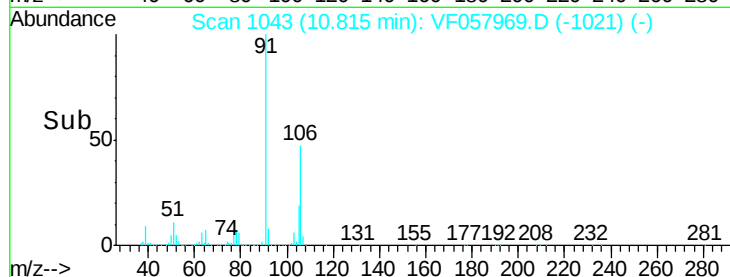
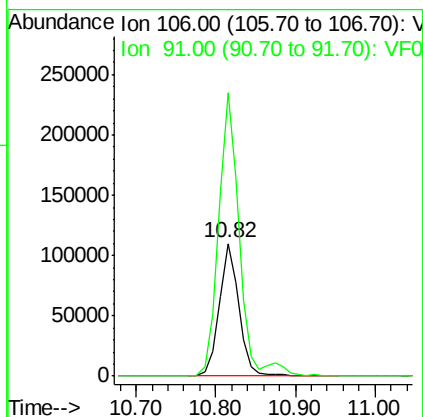
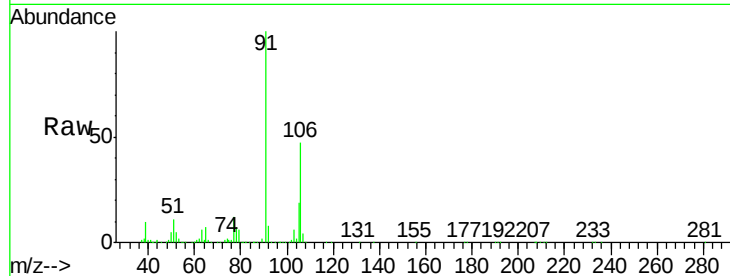




#69
o-Xylene
Concen: 26.04 ug/l
RT: 10.82 min Scan# 1043
Delta R.T. 0.02 min
Lab File: VF057969.D
Acq: 23 May 2018 4:54

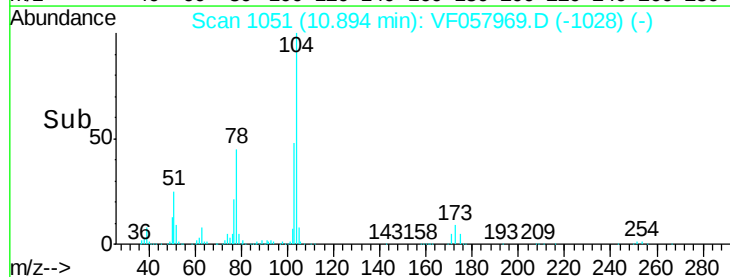
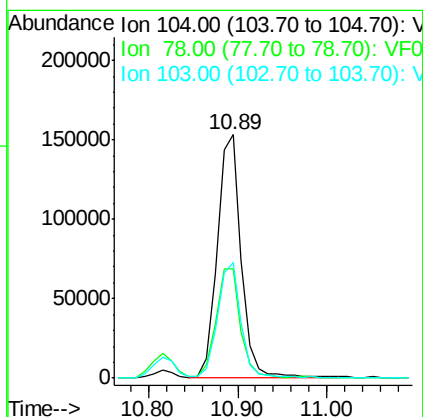
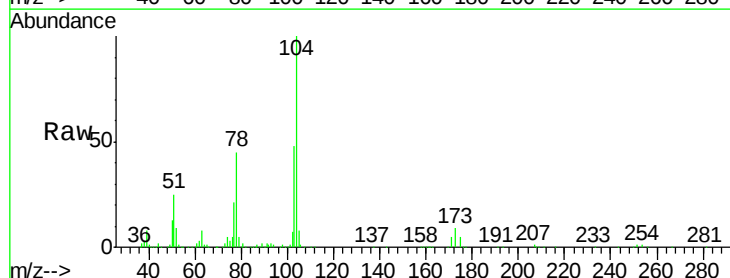
Instrument :
MSVOA_X
ClientSampleId :

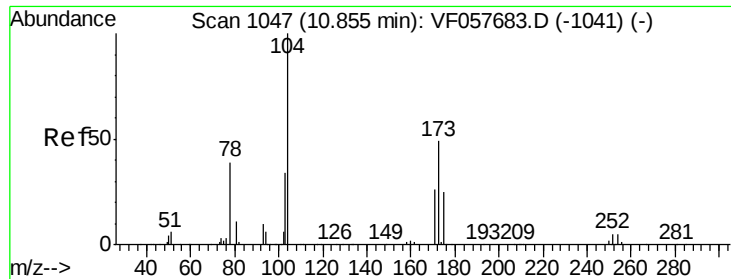
Tot Ion:106 Resp: 192974
Ion Ratio Lower Upper
106 100
91 213.6 108.6 325.6



#70
Styrene
Concen: 24.56 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. 0.03 min
Lab File: VF057969.D
Acq: 23 May 2018 4:54

Tgt Ion:104 Resp: 285720
Ion Ratio Lower Upper
104 100
78 45.0 37.6 56.4
103 47.5 37.4 56.0





#71

Bromoform

Concen: 21.43 ug/l

RT: 10.87 min Scan# 1049

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

ClientSampled :

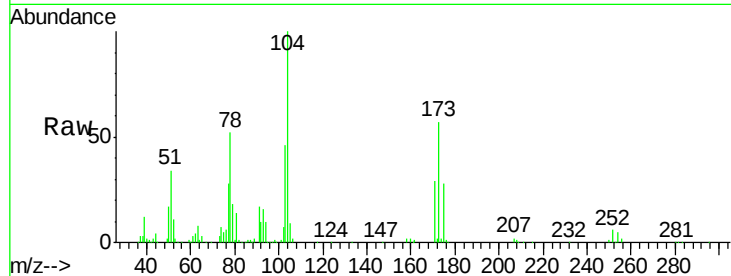
Tot Ion:173 Resp: 70905

Ion Ratio Lower Upper

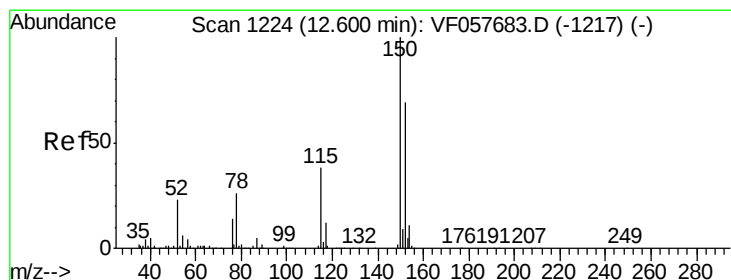
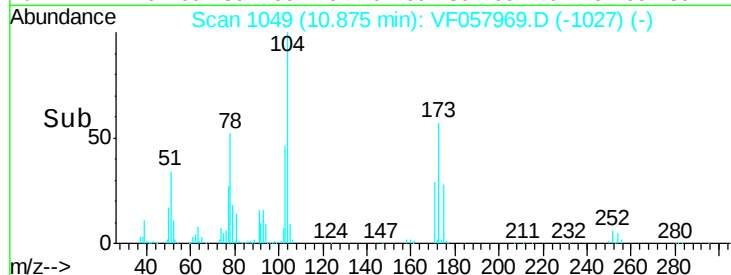
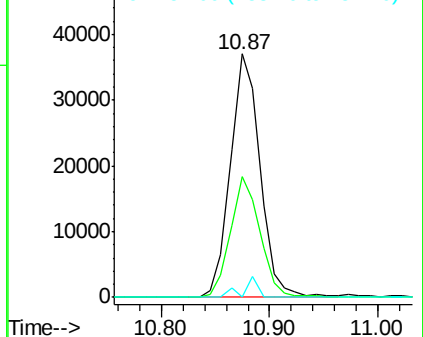
173 100

175 47.9 25.0 75.0

254 0.0 0.0 0.0



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

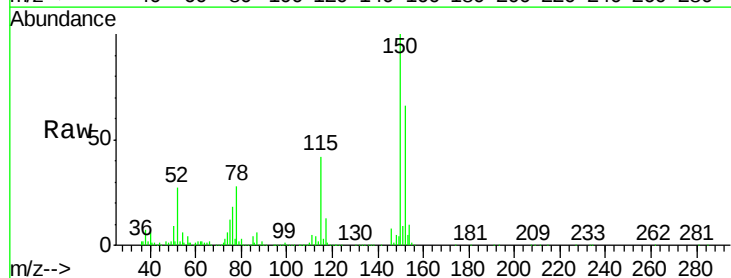
Tgt Ion:152 Resp: 321394

Ion Ratio Lower Upper

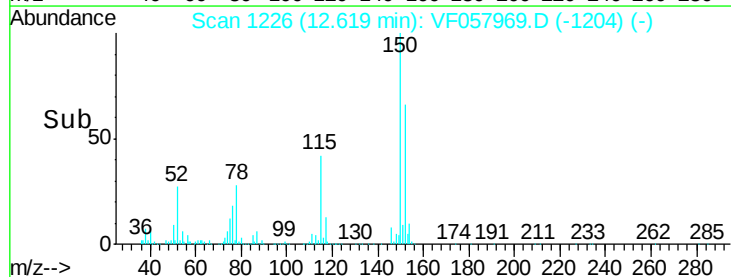
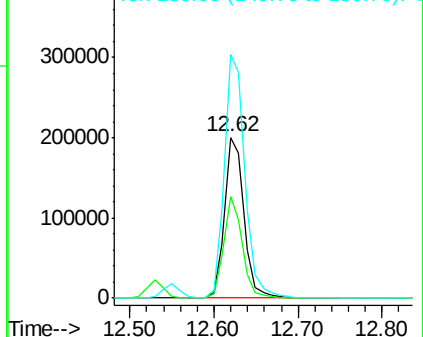
152 100

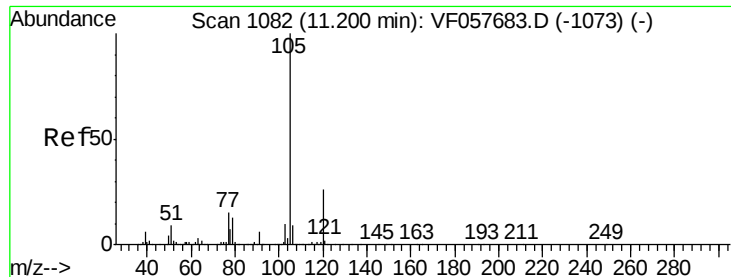
115 63.2 28.4 85.2

150 151.5 0.0 316.6



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 25.18 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

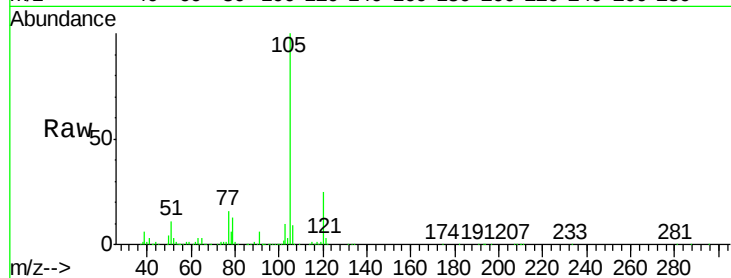
ClientSampleId :

Tot Ion:105 Resp: 508443

Ion Ratio Lower Upper

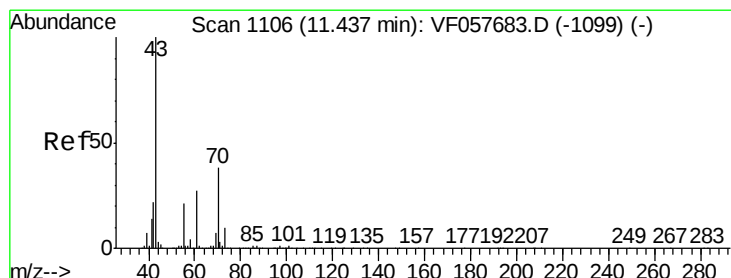
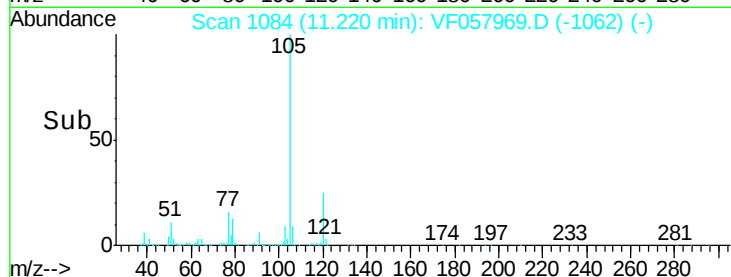
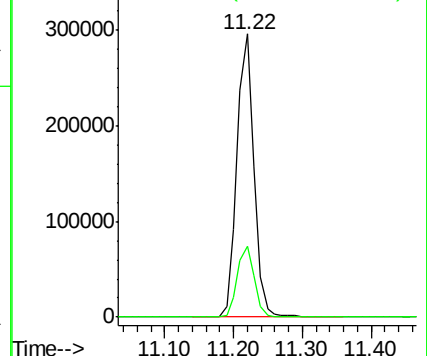
105 100

120 24.9 12.9 38.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 25.37 ug/l

RT: 11.46 min Scan# 1108

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Tgt Ion: 43 Resp: 212001

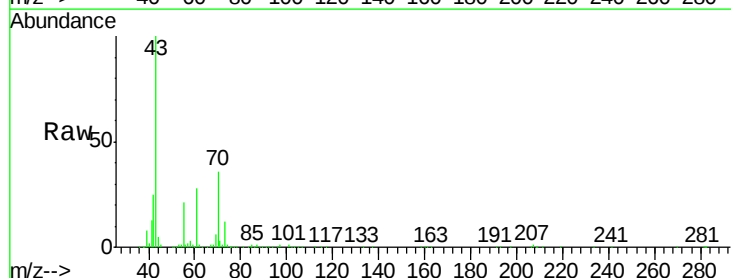
Ion Ratio Lower Upper

43 100

70 36.4 30.2 45.4

55 21.1 17.1 25.7

61 27.6 21.0 31.6

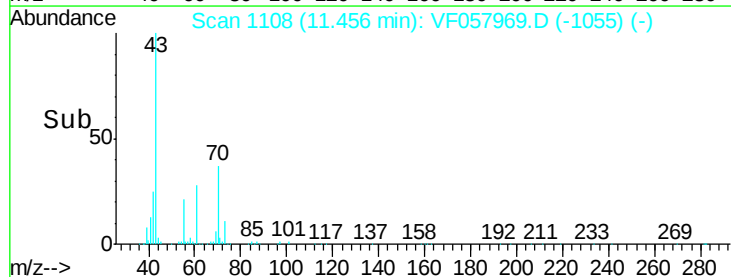
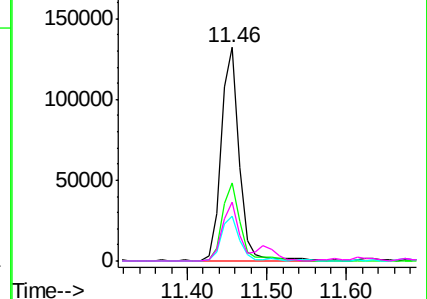


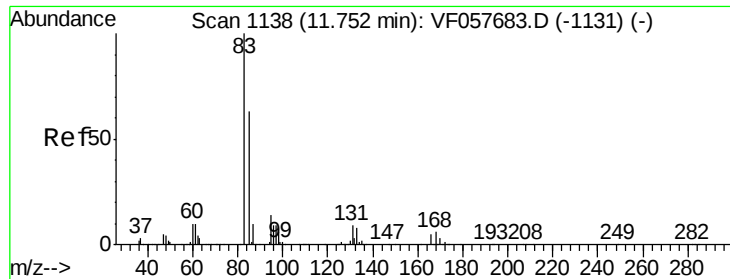
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 24.63 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. 0.03 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

ClientSampleId :

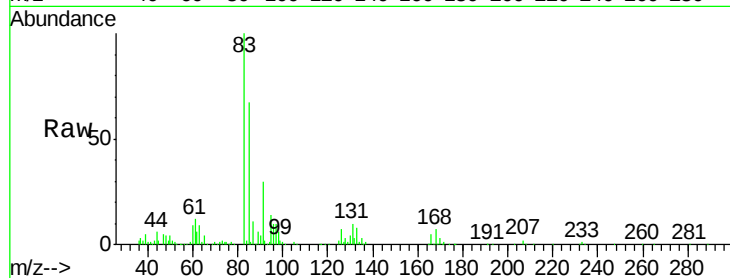
Tot Ion: 83 Resp: 127675

Ion Ratio Lower Upper

83 100

131 9.8 4.3 12.9

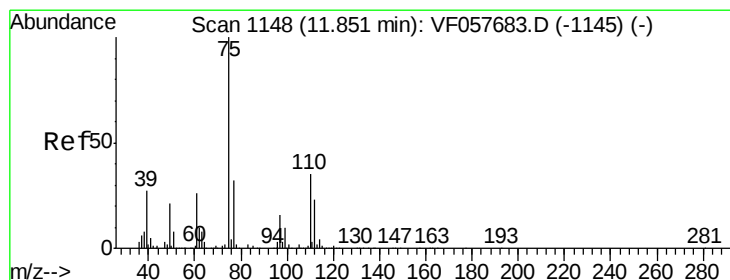
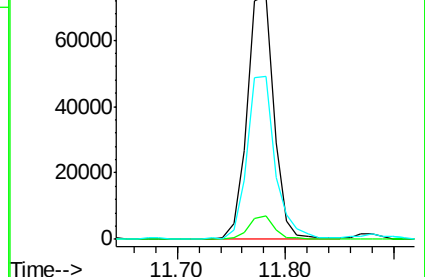
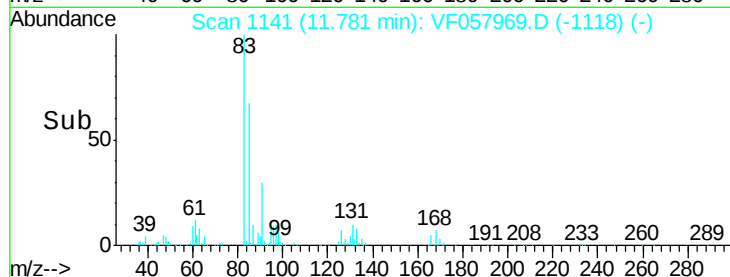
85 67.1 31.4 94.2



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 25.14 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. 0.03 min

Lab File: VF057969.D

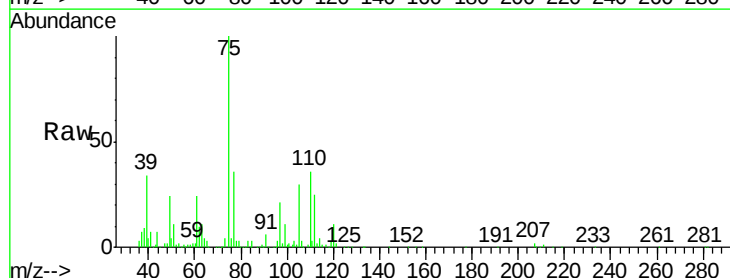
Acq: 23 May 2018 4:54

Tgt Ion: 75 Resp: 94988

Ion Ratio Lower Upper

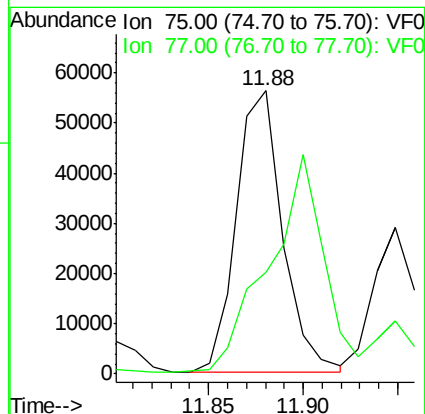
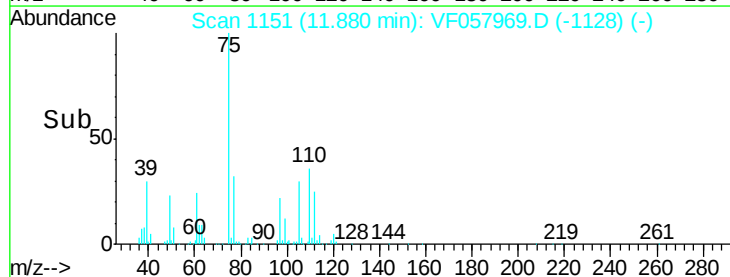
75 100

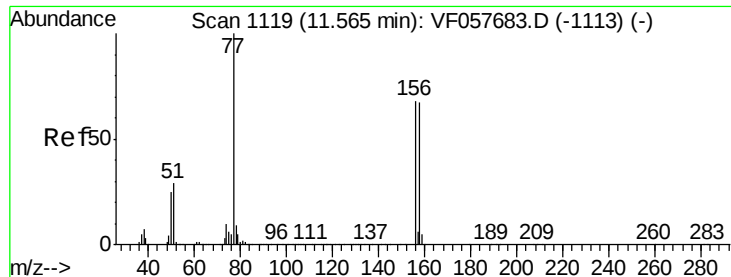
77 35.9 16.4 49.2



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 23.73 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

ClientSampleId :

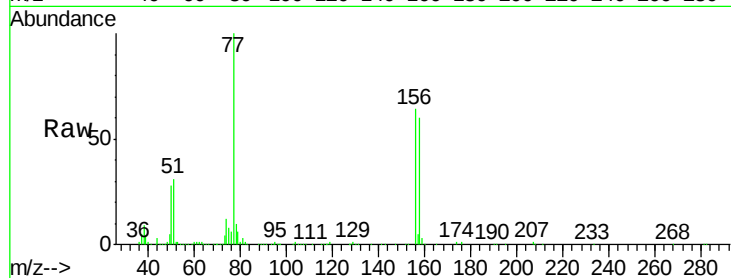
Tot Ion:156 Resp: 128030

Ion Ratio Lower Upper

156 100

77 157.0 73.4 220.2

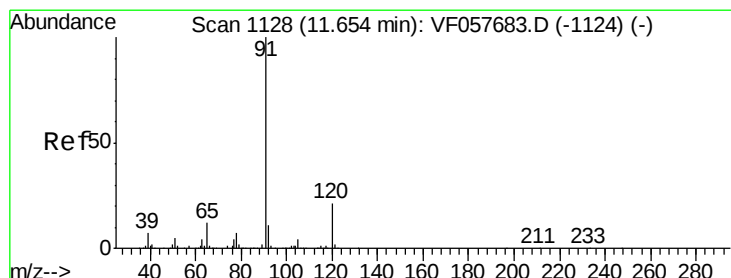
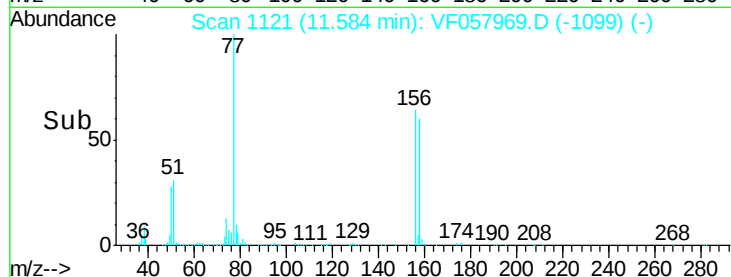
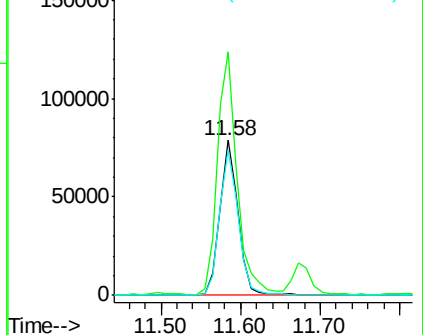
158 93.8 49.0 147.2



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 25.06 ug/l

RT: 11.67 min Scan# 1130

Delta R.T. 0.02 min

Lab File: VF057969.D

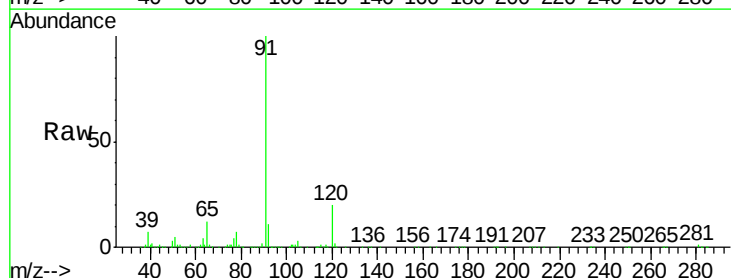
Acq: 23 May 2018 4:54

Tgt Ion: 91 Resp: 621436

Ion Ratio Lower Upper

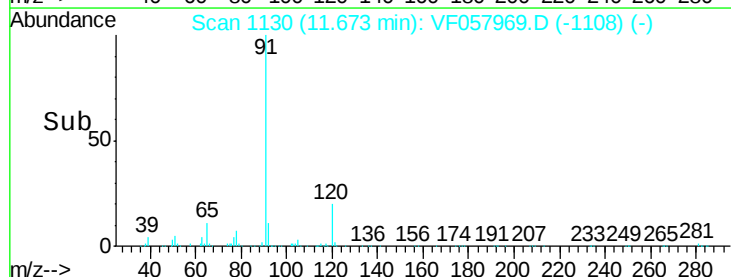
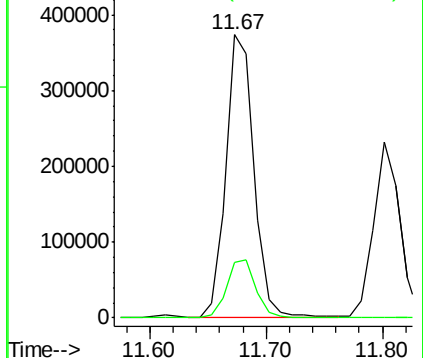
91 100

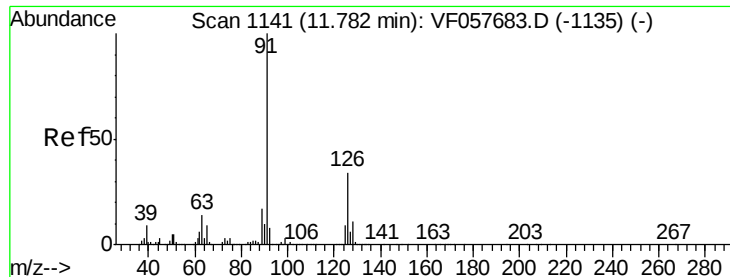
120 19.8 10.4 31.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 24.40 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

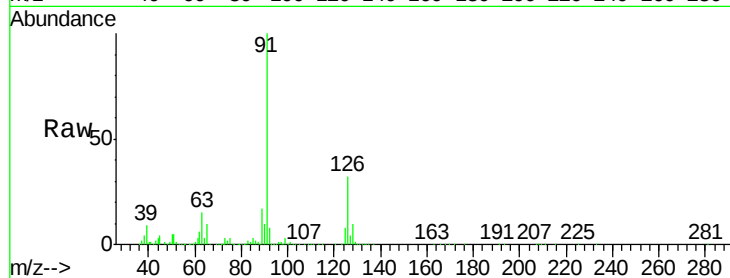
ClientSampled :

Tot Ion: 91 Resp: 359206

Ion Ratio Lower Upper

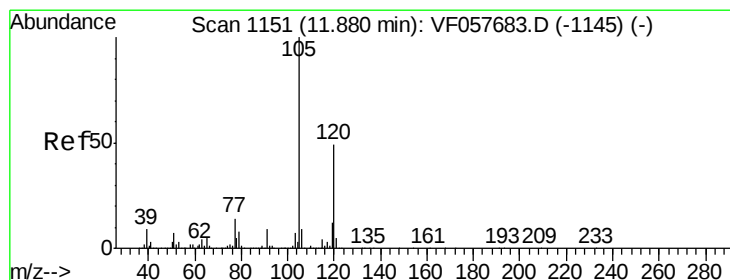
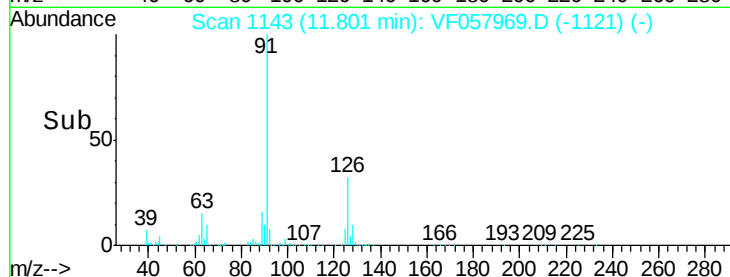
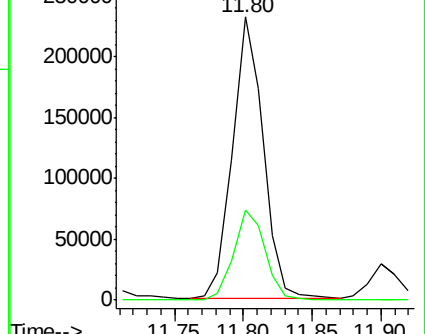
91 100

126 31.7 16.8 50.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 24.65 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.02 min

Lab File: VF057969.D

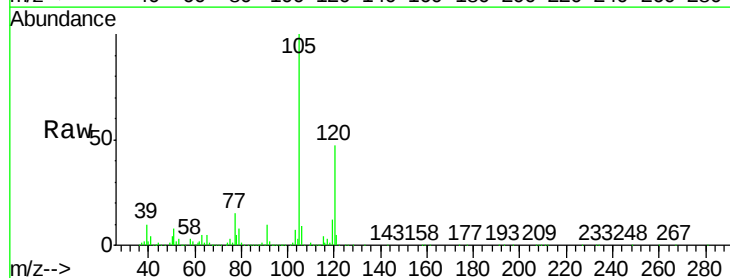
Acq: 23 May 2018 4:54

Tgt Ion: 105 Resp: 431626

Ion Ratio Lower Upper

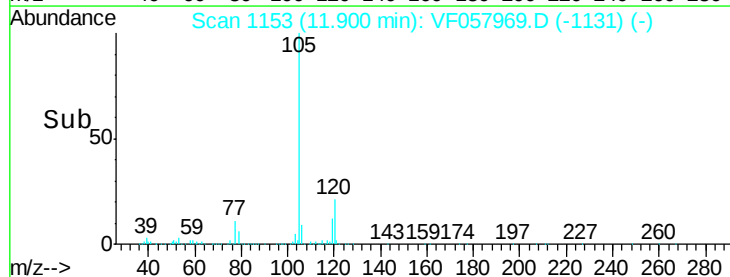
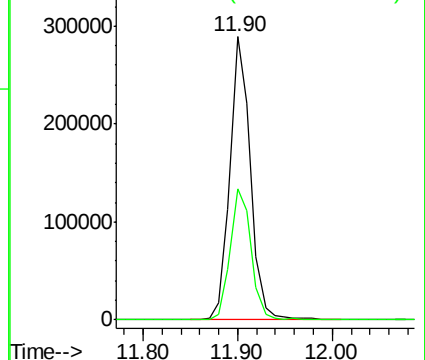
105 100

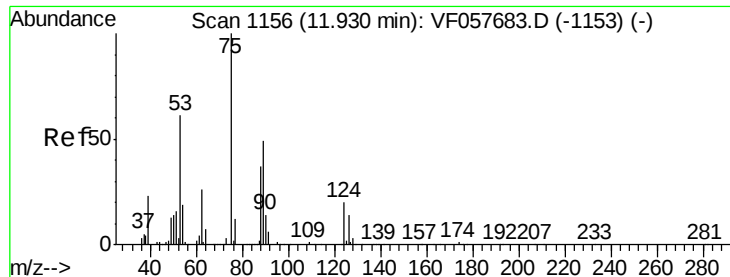
120 46.5 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 23.14 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

ClientSampleId :

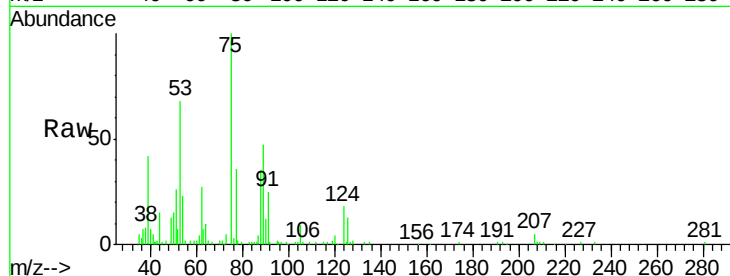
Tot Ion: 75 Resp: 58495

Ion Ratio Lower Upper

75 100

53 67.6 50.7 76.1

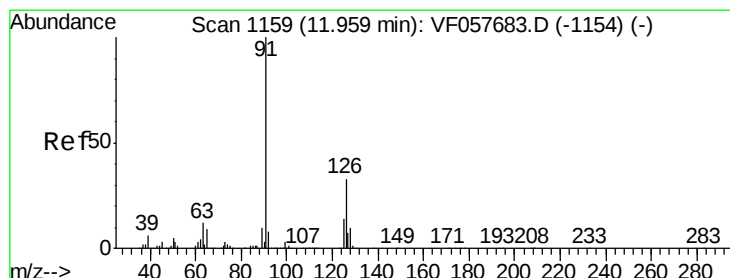
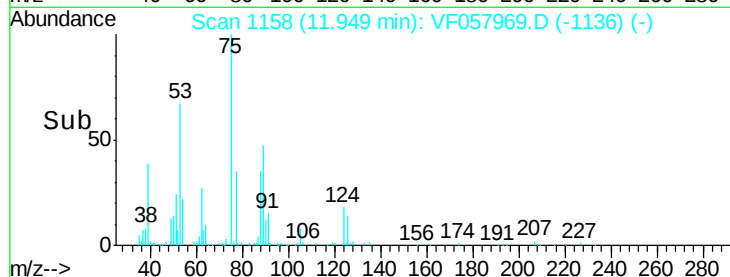
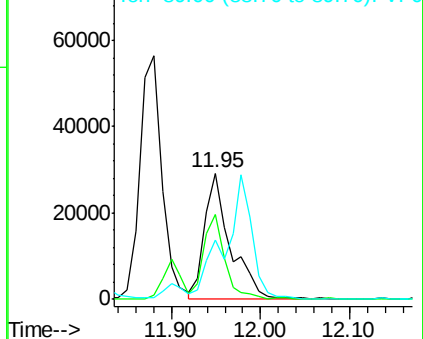
89 47.2 40.3 60.5



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 25.16 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. 0.02 min

Lab File: VF057969.D

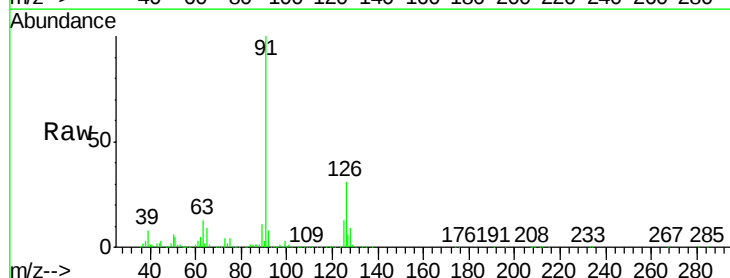
Acq: 23 May 2018 4:54

Tgt Ion: 91 Resp: 404450

Ion Ratio Lower Upper

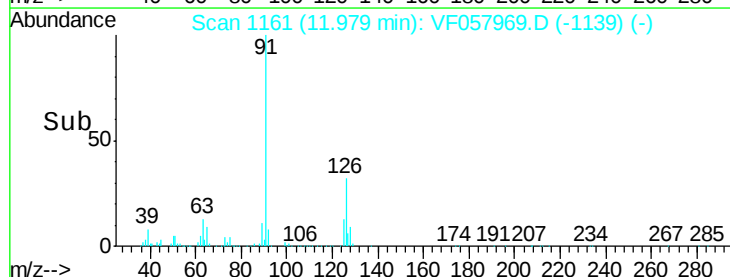
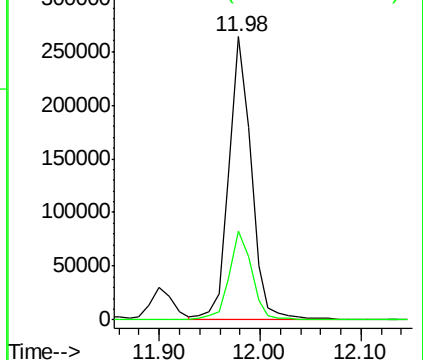
91 100

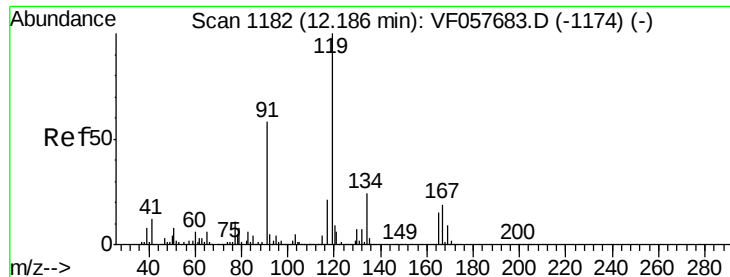
126 31.4 16.6 49.7



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 24.03 ug/l

RT: 12.21 min Scan# 1184

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

ClientSampleId :

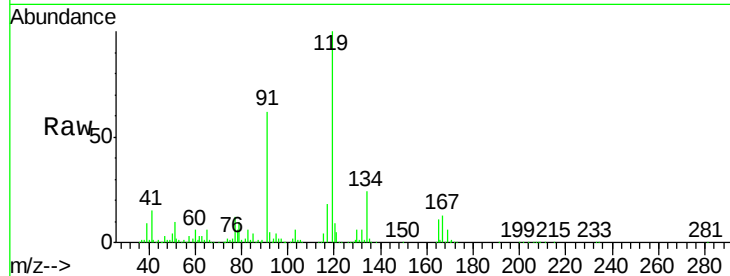
Tot Ion:119 Resp: 418652

Ion Ratio Lower Upper

119 100

91 62.3 29.1 87.3

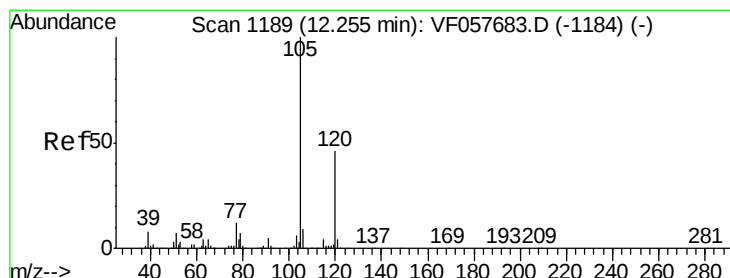
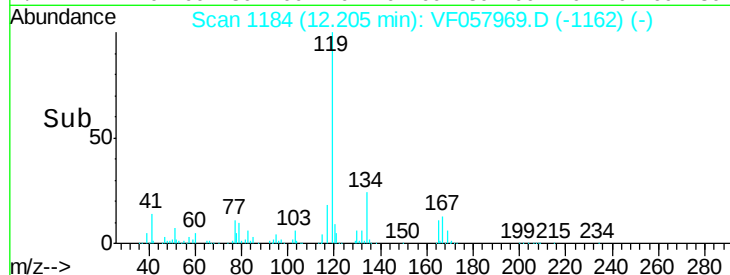
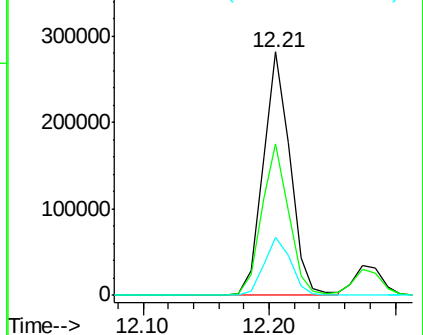
134 23.7 11.9 35.5



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 24.49 ug/l

RT: 12.27 min Scan# 1191

Delta R.T. 0.02 min

Lab File: VF057969.D

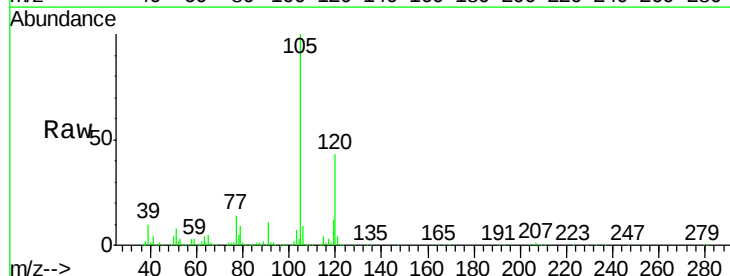
Acq: 23 May 2018 4:54

Tgt Ion:105 Resp: 439508

Ion Ratio Lower Upper

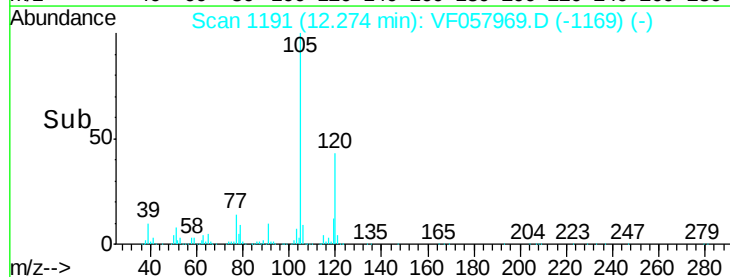
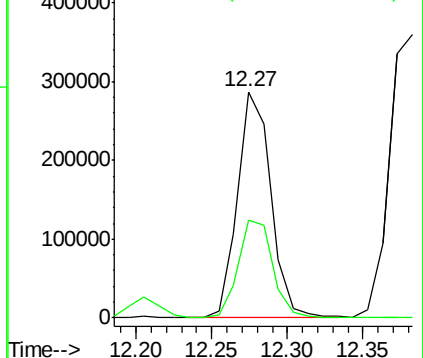
105 100

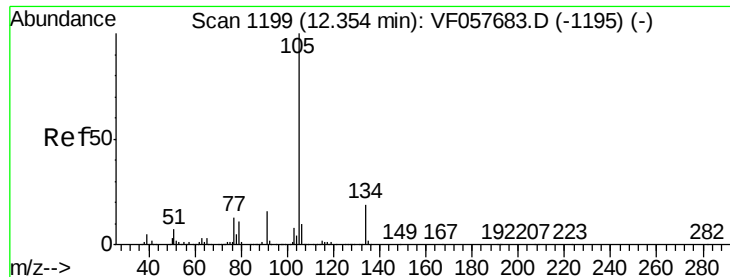
120 43.3 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 24.98 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. 0.03 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

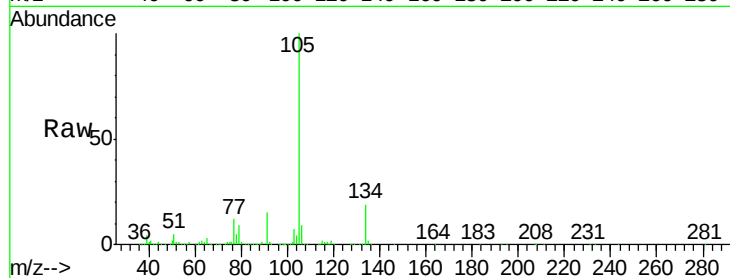
ClientSampleId :

Tot Ion:105 Resp: 571791

Ion Ratio Lower Upper

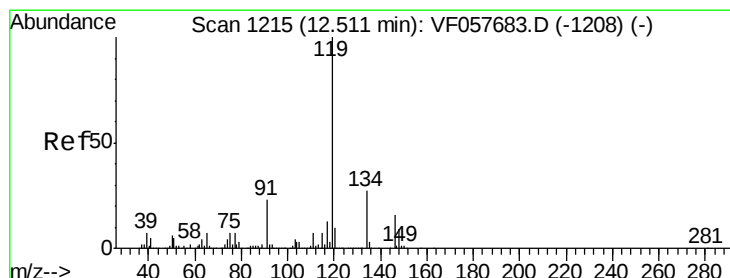
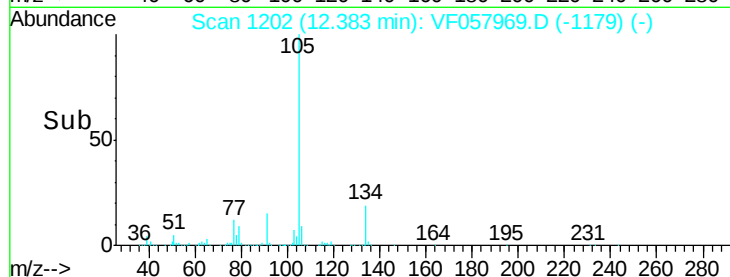
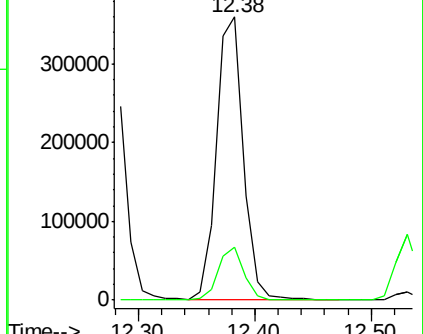
105 100

134 18.7 9.3 27.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 23.23 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

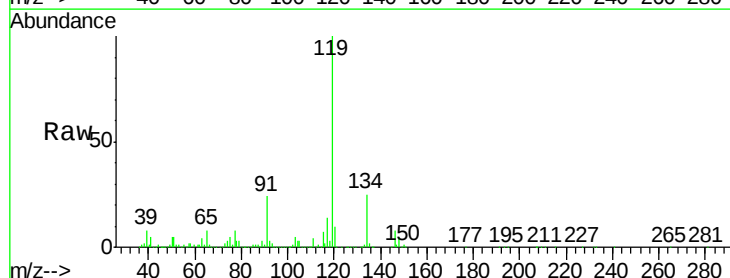
Tgt Ion:119 Resp: 460047

Ion Ratio Lower Upper

119 100

134 25.2 13.4 40.2

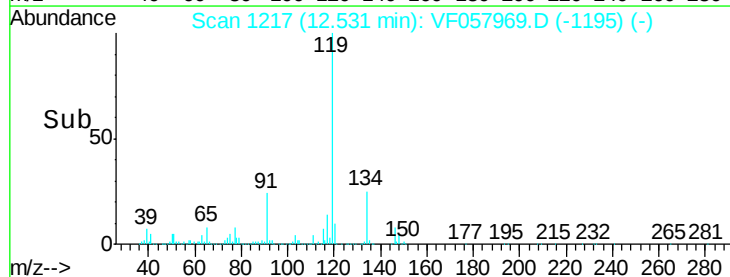
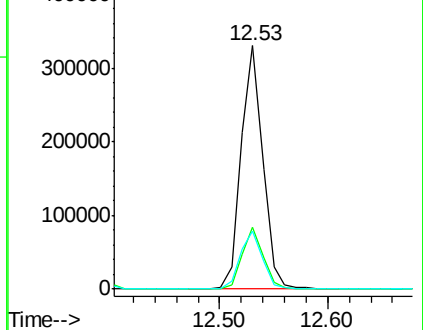
91 24.0 11.5 34.5

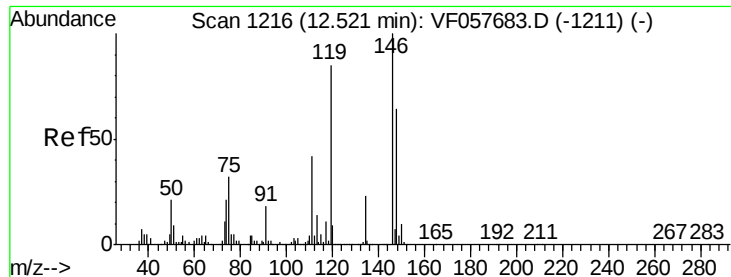


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

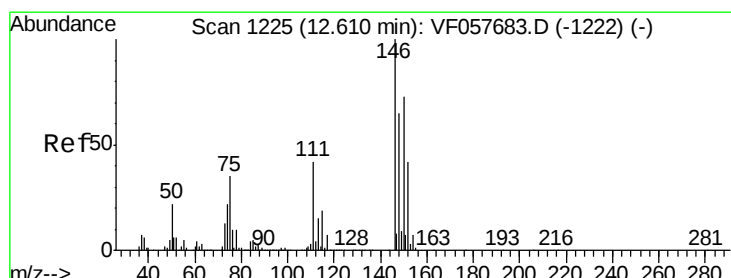
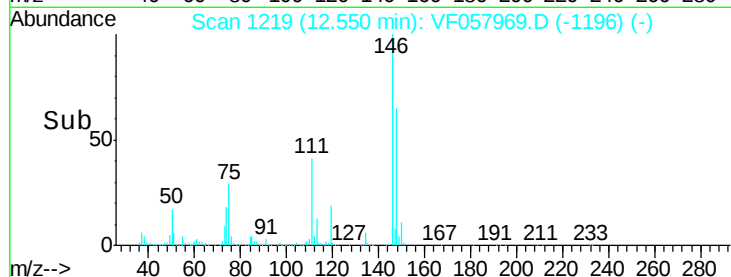
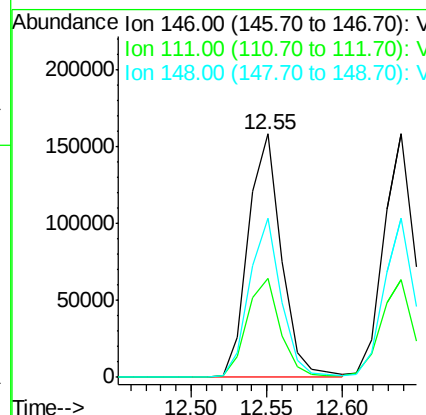
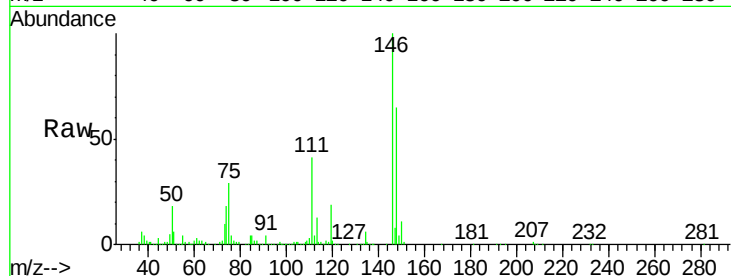




#87
 1,3-Dichlorobenzene
 Concen: 23.78 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. 0.03 min
 Lab File: VF057969.D
 Acq: 23 May 2018 4:54

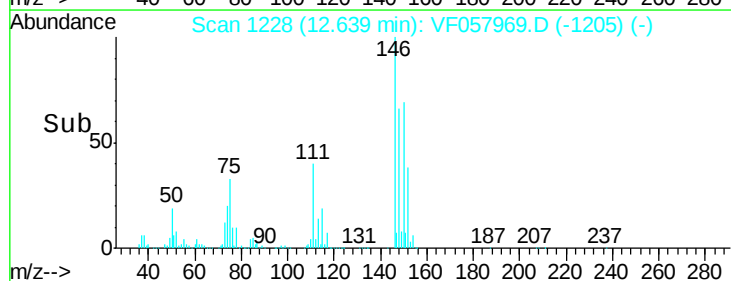
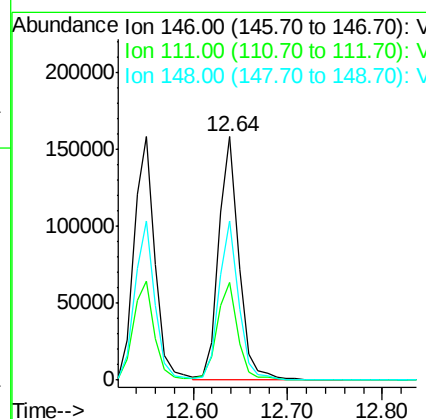
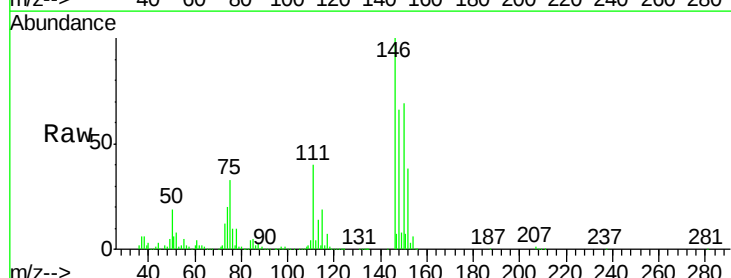
Instrument :
 MSVOA_X
 ClientSampleId :

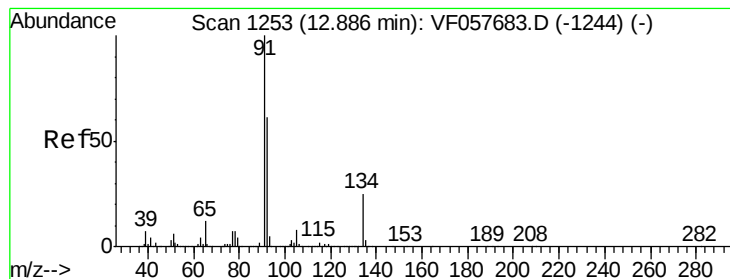
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.6	21.0	63.0
148	65.4	32.2	96.6



#88
 1,4-Dichlorobenzene
 Concen: 23.79 ug/l
 RT: 12.64 min Scan# 1228
 Delta R.T. 0.03 min
 Lab File: VF057969.D
 Acq: 23 May 2018 4:54

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.2	21.1	63.3
148	65.6	32.3	96.9

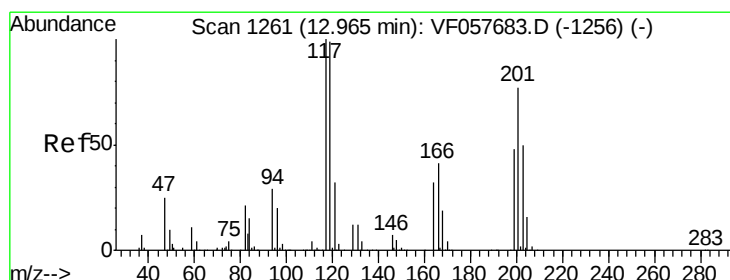
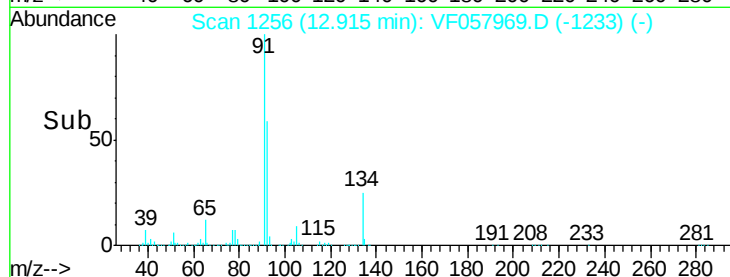
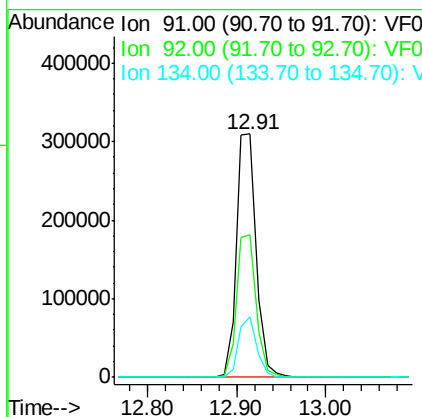
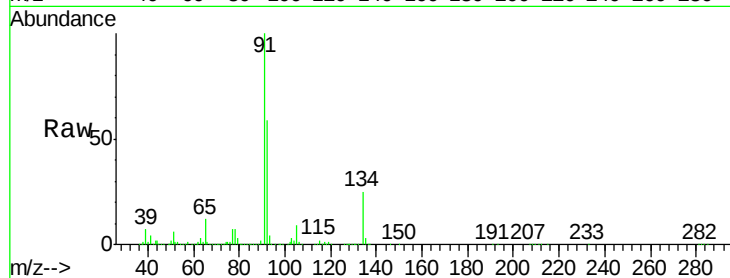




#89
n-Butylbenzene
Concen: 24.33 ug/l
RT: 12.91 min Scan# 1256
Delta R.T. 0.03 min
Lab File: VF057969.D
Acq: 23 May 2018 4:54

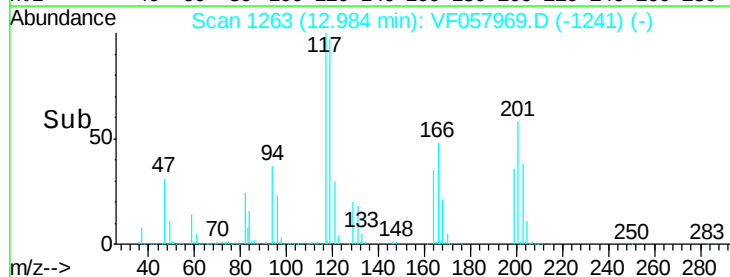
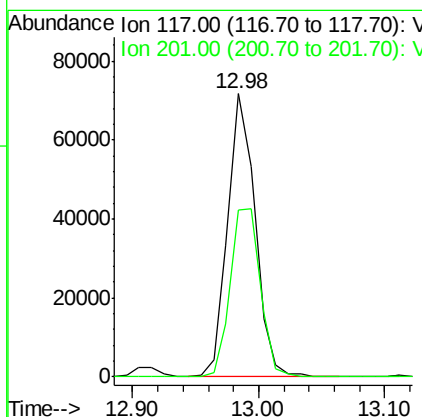
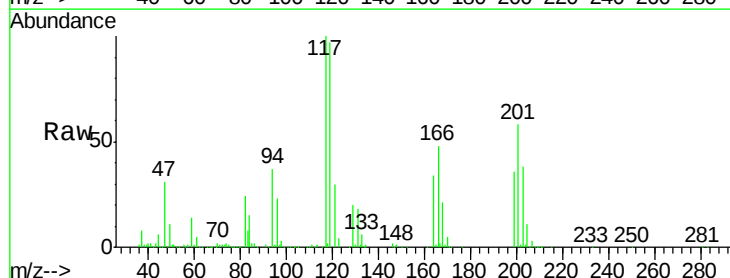
Instrument :
MSVOA_X
ClientSampled :

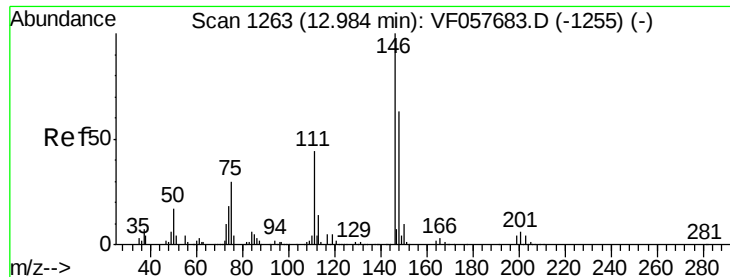
Tot Ion	91	Resp	480968
Ion Ratio	Lower	Upper	
91	100		
92	58.6	30.3	91.0
134	24.7	12.7	38.1



#90
Hexachloroethane
Concen: 22.64 ug/l
RT: 12.98 min Scan# 1263
Delta R.T. 0.02 min
Lab File: VF057969.D
Acq: 23 May 2018 4:54

Tgt Ion	117	Resp	107900
Ion Ratio	Lower	Upper	
117	100		
201	59.1	38.6	115.7





#91

1,2-Dichlorobenzene

Concen: 24.83 ug/l

RT: 13.01 min Scan# 1266

Delta R.T. 0.03 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

ClientSampleId :

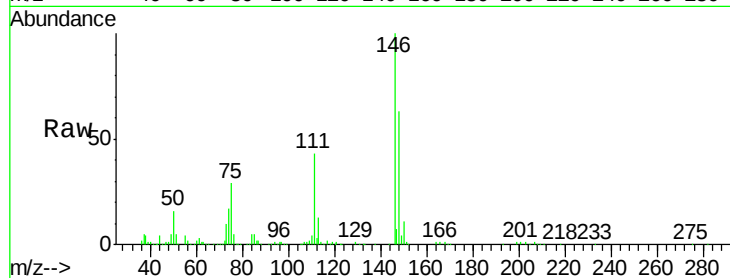
Tot Ion:146 Resp: 232154

Ion Ratio Lower Upper

146 100

111 42.8 22.0 66.0

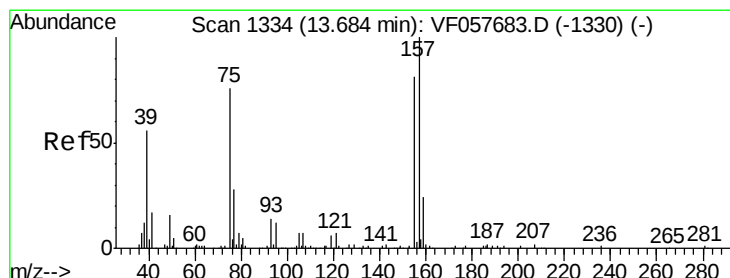
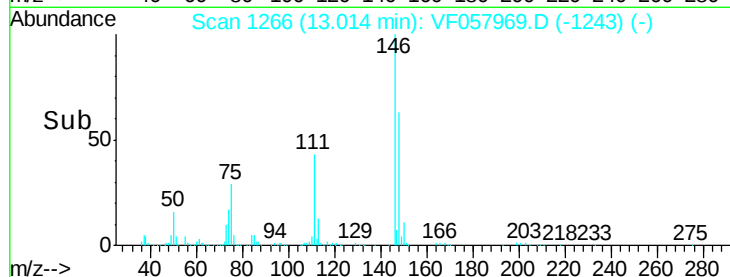
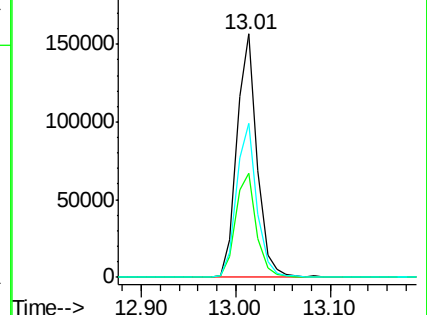
148 63.3 31.4 94.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 22.55 ug/l

RT: 13.70 min Scan# 1336

Delta R.T. 0.02 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

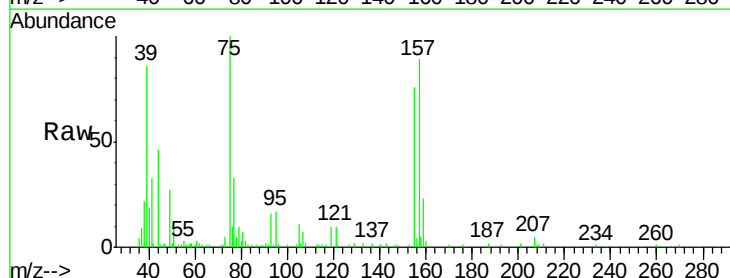
Tgt Ion: 75 Resp: 23530

Ion Ratio Lower Upper

75 100

155 75.7 52.8 158.4

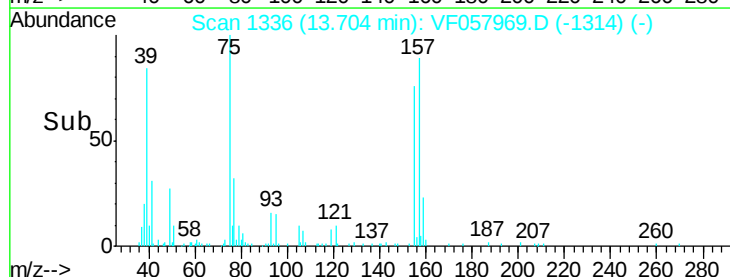
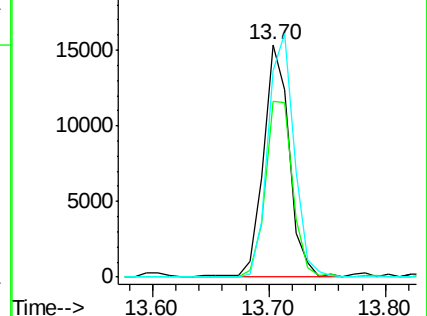
157 89.0 65.0 194.8

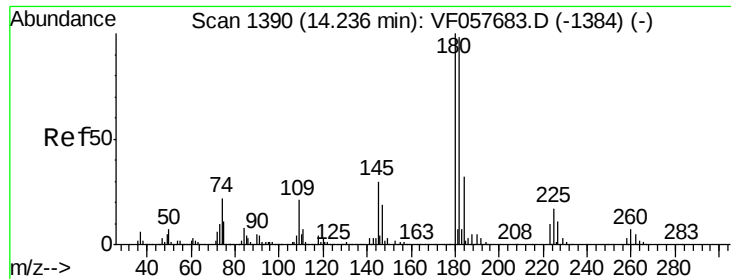


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

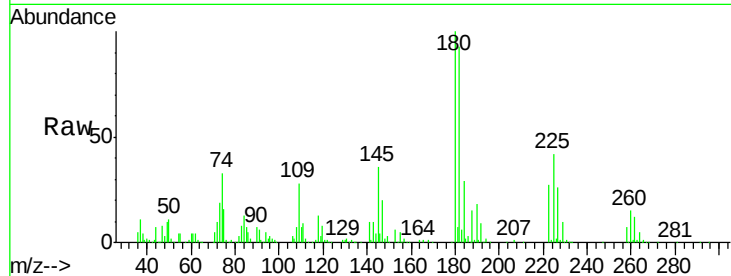




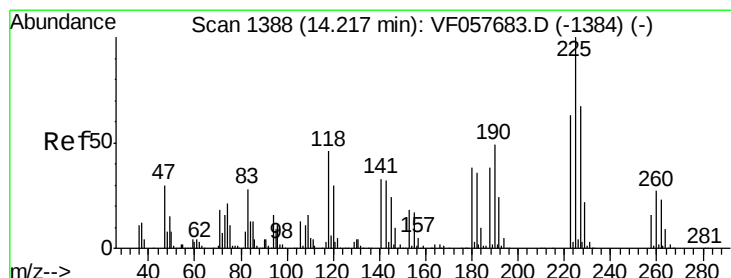
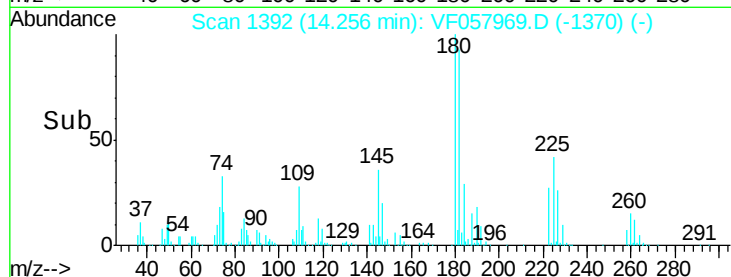
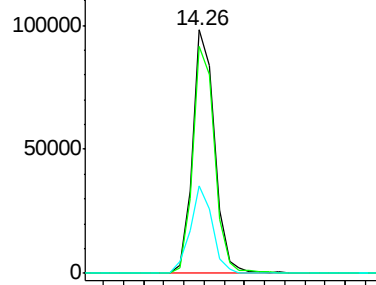
#93
 1,2,4-Trichlorobenzene
 Concen: 22.20 ug/l
 RT: 14.26 min Scan# 1392
 Delta R.T. 0.02 min
 Lab File: VF057969.D
 Acq: 23 May 2018 4:54

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.1	49.0	147.2
145	35.9	15.2	45.6

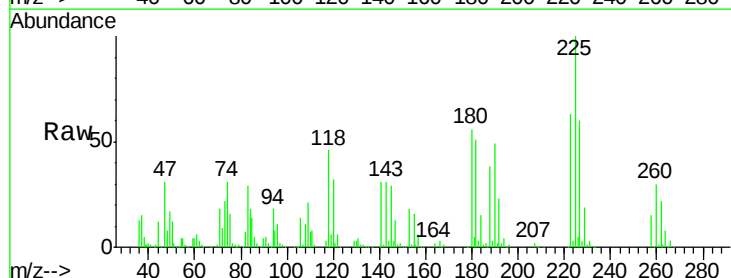


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

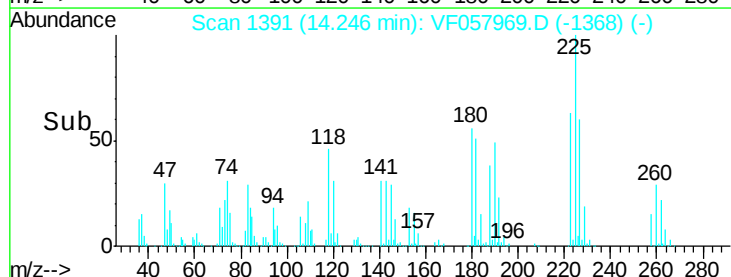
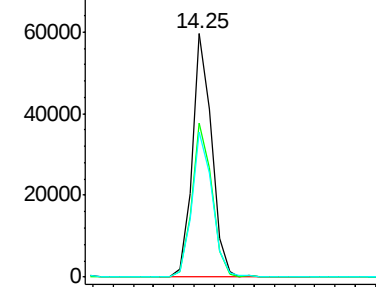


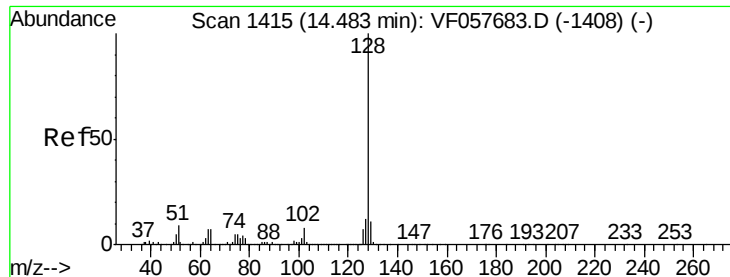
#94
 Hexachlorobutadiene
 Concen: 21.59 ug/l
 RT: 14.25 min Scan# 1391
 Delta R.T. 0.03 min
 Lab File: VF057969.D
 Acq: 23 May 2018 4:54

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.6	95.0
227	59.6	33.4	100.1



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 21.60 ug/l

RT: 14.51 min Scan# 1418

Delta R.T. 0.03 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

Instrument :

MSVOA_X

ClientSampled :

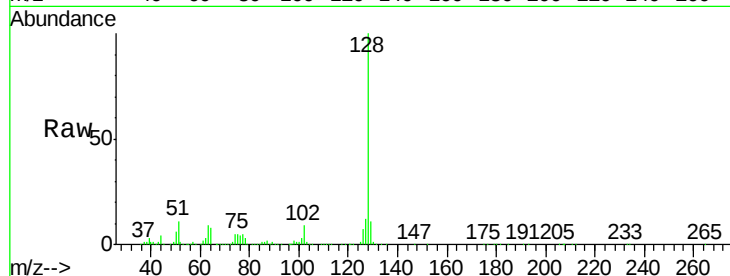
Tot Ion:128 Resp: 330761

Ion Ratio Lower Upper

128 100

127 12.5 9.8 14.8

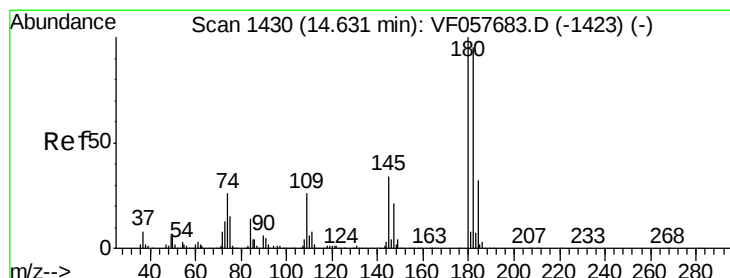
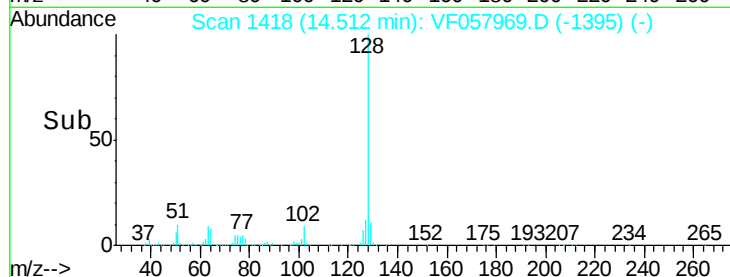
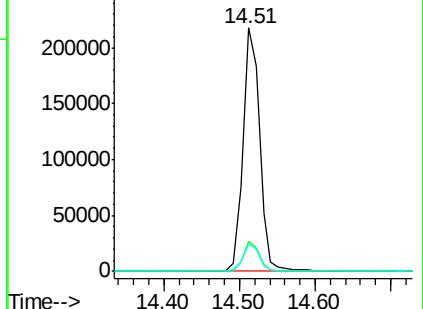
129 11.1 9.2 13.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 22.65 ug/l

RT: 14.66 min Scan# 1433

Delta R.T. 0.03 min

Lab File: VF057969.D

Acq: 23 May 2018 4:54

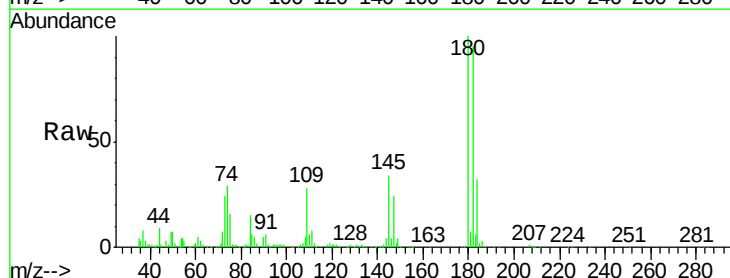
Tgt Ion:180 Resp: 140815

Ion Ratio Lower Upper

180 100

182 95.1 47.4 142.3

145 33.9 16.9 50.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

